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LEBANON VALLEY COLLEGE

bulletin

Lebanon Valley College
Bulletin is published five
times a year in the Spring,
Summer, Fall and twice
in Winter by Lebanon
Valley College, Laughlin
Hall, Annville, Pennsyl-
vania 17003

Volume IX, Number 5
Winter 1975

The college reserves the
right to change any pro-
visions or requirements
at any time within the
student's term of res-
idence.

Second class postage
paid at Annville, Penn-
sylvania 17003

COLLEGE CALENDAR 1976/1977

First Semester

1976

- Aug. 28 Saturday, 5:45 p.m. Faculty-Administration reception and dinner
29 Sunday, 2:00 p.m. Residence halls open for new students
30-31 Monday, Tuesday Orientation for new students
31 Tuesday, 8:30 a.m. Registration by new students
31 Tuesday, 1:00 p.m. Registration by upperclassmen
Sept. 1 Wednesday, 10:00 a.m. Opening College Convocation
1 Wednesday, 1:00 p.m. Classes begin
11 Saturday Board of Trustees Retreat
21 Tuesday, 11:00 a.m. Religion and Life—Balmer Showers Lecture
Oct. 2 Saturday Homecoming Day
19 Tuesday, 11:00 a.m. Balmer Showers Lecture
20 Wednesday Mid-Semester grades due
Nov. 10-17 Wednesday through
Wednesday Pre-Registration for second semester
13 Saturday Board of Trustees meeting
24 Wednesday, 1:00 p.m. Thanksgiving vacation begins
29 Monday, 8:00 a.m. Classes resume
Dec. 9 Thursday, 5:00 p.m. First semester classes end
10-12 Friday through Sunday Reading period
13-18 Monday through
Saturday First semester examinations
18 Saturday, 5:00 p.m. First semester ends

Second Semester

1977

- Jan. 16 Sunday, 2:00 p.m. Residence halls open
17 Monday, 8:00 a.m. Registration
18 Tuesday, 8:00 a.m. Classes begin
Feb. 8 Tuesday, 11:00 a.m. Religion and Life—Balmer Showers Lecture
22 Tuesday, 11:00 a.m. Founders' Day
25 Friday, 5:00 p.m. Spring vacation begins
Mar. 2-11 Wednesday through
Friday Concert Choir tour
7 Monday, 8:00 a.m. Classes resume
15 Tuesday, 11:00 a.m. Religious Emphasis Day
27 Sunday, 3:00 p.m. Spring Music Festival, Wind Ensemble
29 Tuesday Phi Alpha Epsilon Day
30-Apr. 6 Wednesday through
Wednesday Pre-registration by current students for first semester, 1977-1978, and 1977 summer session
3 Sunday, 3:00 p.m. Spring Music Festival, College Chorus and Symphony Orchestra
7 Thursday, 5:00 p.m. Easter vacation begins
12 Tuesday, 8:00 a.m. Classes resume
17 Sunday, 3:00 p.m. Spring Music Festival, Symphonic Band
29-May 1 Friday through Sunday Seventh Annual Spring Arts Festival
3 Tuesday, 11:00 a.m. Awards and Recognition Convocation
5 Thursday, 5:00 p.m. Second semester classes end
6-8 Friday through Sunday Reading period
7 Saturday Alumni Day
9-14 Monday through
Saturday Second semester examinations
14 Saturday, 5:00 p.m. Second semester ends
20 Friday Board of Trustees meeting
21 Saturday Orientation for incoming students
22 Sunday, 9:00 a.m. Baccalaureate service
22 Sunday, 11:00 a.m. 108th Annual Commencement

1977 summer session: June 13-August 5

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COLLEGE PROFILE

COLLEGE HISTORY

Officials of the East Pennsylvania Conference of the Church of the United Brethren in Christ were acutely embarrassed in the spring of 1866. Five public-spirited citizens of the town of Annville had come to Conference on February 22 and offered as a gift the Annville Academy building on Main Street, which they had bought for \$4,500, providing that the Conference would establish and maintain there forever an institution of learning of high grade. The gift was accepted. The name Lebanon Valley College was chosen. It was decided to lease the property to someone qualified to operate a school. The opening date was set—May 7. Planning then came to a stop, for they could find no one to take the lease.

That was the situation seven weeks before the opening date, according to George Washington Miles Rigor, whose short account is the earliest extant history of Lebanon Valley College. There was no college graduate in the whole Conference, and a poll of Otterbein College graduates failed to turn up a prospect. Rigor, a United Brethren minister who had attended college for only three years, stepped into the breach. He enlisted the cooperation of a neighbor, Thomas R. Vickroy, a Methodist minister and graduate of Dickinson College. They took over the lease as partners for the next five years, Vickroy to run the school and Rigor to act as agent. The building was readied and Lebanon Valley College opened on May 7, as scheduled, with 49 students enrolled. From its first day it was co-educational.

President Vickroy's term was marked by action. Eleven acres were added to the "lot and a half of ground" conveyed by the original deed. A spacious four-story building was erected. A charter was granted by the Commonwealth of Pennsylvania. A faculty was hired. A complete college curriculum, based on the classics but including music and art, was established, and two classes were graduated before Vickroy gave up his lease in 1871. The college was not leased again but continued operations through a Board of Trustees.

The five presidents during the next 25 years had great difficulty in keeping the college financially afloat, due to lack of support ranging from apathy to open opposition. There was some progress. A library was established in 1874, and a college newspaper appeared in 1888. However, in the fall of 1896, the school was debt-ridden, living from hand to mouth, with an enrollment of only 80.

The administration of President Hervin U. Roop, starting in 1897, marked the first real period of expansion. Under his leadership, five new buildings were erected, including a library donated by Andrew Carnegie, and the Administration Building was re-built after a disastrous fire on Christmas Eve, 1904. By 1905, enrollment had soared to 470, with a faculty of 23.

Loss of public confidence and financial support prompted Roop's resignation in 1905, and the college faced its darkest days. Bankruptcy was averted by the keen business sense and personal generosity of President Lawrence Keister, who served from 1907 to 1912.

President George D. Gossard finally gave the college stability when he achieved for it accreditation and a million-dollar endowment fund, the income from which was to form the financial cushion dreamed of by all the presidents before him. By the end of his 20-year term in 1932, there were 653 students and 32 faculty members. Most important, the Conservatory of Music was accredited by the Commonwealth for its program in public school music, marking the start of an outstanding academic department.

Following Dr. Gossard's death in 1932, Dr. Clyde A. Lynch faced a series of external crises which lasted throughout his 18 years as president. The stock market crash shrank the handsome endowment raised by his predecessor. The depression of the 1930's reduced the enrollment, and World War II lowered it still further; the post-war influx of veterans then stretched it to more than capacity. In spite of these trials, Dr. Lynch's administration began buying property adjacent to the campus to allow for further expansion. It also raised over a half-million dollars, part of which was to be used for a new physical education building. This building, still unfinished at the time of Lynch's death in 1950, was named in his honor upon completion.

The twelfth president of the college, Frederic K. Miller, served for almost 17 years. During his term, inflation caused mushrooming costs, but the so-called "tidal wave of students" made possible selective admissions. The greatest physical expansion in the history of the college occurred, with seven new buildings erected and several renovated. Two major fundraising drives were concluded successfully. Enrollment increased 60%, with a corresponding increase in faculty and administrative staff. The centennial of the founding of the college was observed by a year-long series of events.

On April 1, 1967, Dr. Miller retired, and Allan W. Mund, president of the Board of Trustees, became acting president. It was not until February 3, 1968, that Frederick P. Sample was elected by the board to become thirteenth president of Lebanon Valley College. When Dr. Sample assumed office on September 1, 1968, Lebanon Valley College faced its second century as a fully-accredited, church-related, coeducational college of the liberal arts, occupying a 35-acre campus of 26 buildings, and supporting an enrollment of 900 and a full-time faculty of 58. In the years since then, the college has continued to grow in acres and buildings, in students and faculty. This growth is reaching its culmination in the 1970's with the multi-million dollar ambitions of the Fund for Fulfillment.

Just as the college has changed through the years, so has the Church of the United Brethren in Christ which gave it birth and offered its support. Organized in 1800 as the first Christian church indigenous to the United States, the denomination merged with the Evangelical Church to become the Evangelical United Brethren Church in 1946. In April, 1968,

this body joined with the Methodist Church to form the United Methodist Church.

In looking to its second century, Lebanon Valley College is conscious of the dream of its forefathers that it be "an institution of learning of high grade." It aims to be essentially what it is now, a relatively small college of the liberal arts and sciences that takes its Christian origins seriously.

Presidents of Lebanon Valley College

Rev. Thomas Rees Vickroy, Ph.D. 1866-1871	Rev. Lawrence Keister, S.T.B., D.D. 1907-1912
Lucian H. Hammond, A.M. 1871-1876	Rev. George Daniel Gossard, B.D., D.D., LL.D. 1912-1932
Rev. D. D. DeLong, A.M. 1876-1887	Rev. Clyde Alvin Lynch, A.M., B.D., D.D., Ph.D., LL.D. 1932-1950
Rev. E. S. Lorenz, A.M., B.D. 1887-1889	Frederic K. Miller, M.A., Ph.D., Litt.D., D.H.L., D.Pd., LL.D. Acting President 1950-1951 President 1951-1967
Rev. Cyrus J. Kephart, A.M. 1889-1890	Allan W. Mund, LL.D. Acting President 1967-1968
E. Benjamin Bierman, A.M., Ph.D. 1890-1897	Frederick P. Sample, B.A., M.Ed., D.Ed., Pd.D. 1968-
Rev. Hervin U. Roop, A.M., Ph.D., LL.D. 1897-1906	
Rev. Abram Paul Funkhouser, B.S. 1906-1907	

ACCREDITATION

Lebanon Valley College is on the approved lists of the Regents of the State University of New York and the American Association of University Women.

Lebanon Valley College is accredited by the following bodies:

Middle States Association of Colleges
and Secondary Schools

Department of Education of Pennsylvania

National Association of Schools of
Music

American Chemical Society

Lebanon Valley College is a member of the following bodies:

American Council on Education
Association of American Colleges
College Entrance Examination Board
College Scholarship Service
Eastern College Athletic Conference
Pennsylvania Association of Colleges
and Universities
Pennsylvania Foundation for Independent Colleges

LEBANON VALLEY COLLEGE
Annville, Pennsylvania

STATEMENT OF PURPOSE

Lebanon Valley College affirms its Christian origins by maintaining affiliation with the United Methodist Church and by recognizing the Christian faith as the perspective for its policies. Both the Christian spirit, which encourages the unhampered search for truth, and the academic program, which gives form to the search for truth, combine to generate free and responsible inquiry by students and faculty.

In accordance with the purposes of its founders, Lebanon Valley College seeks to provide an atmosphere in which the student can respond creatively to the contemporary world. Each person is encouraged (1) to develop a genuine concern for cooperative living and community service; (2) to attain a heightened sense of moral and spiritual values through a deepened awareness of how people have thought of themselves in relation to nature, to society, and to God; (3) to appreciate the close and unmistakable relationship among rational thought, creative imagination, and moral commitment; and (4) to deal candidly and intelligently with the past, the present, and the future and their interrelationship.

The programs of the College are designed to provide a demanding as well as a rewarding encounter with the means necessary to achieve the discovery of self and society: consideration of humanity's most significant ideas and accomplishments; development of logical thought and clear communication; practice in precise analysis and effective performance. The academic, social, religious, and aesthetic experiences blend to create the atmosphere of the College in a way that fosters enlivened curiosity, discipline of self, and excitement about ideas that are the hallmark of the educated individual.

Lebanon Valley College, with approximately one thousand students and a low-student-faculty ratio, in giving life to the concept of liberal arts as expressed in the preceding paragraphs has chosen to maintain an educational institution which is academically strong, guided by the Christian faith, and small enough to give personal attention to all students.

Adopted February 1, 1975

Lebanon Valley College Board of Trustees

SUPPORT AND CONTROL

Lebanon Valley College receives support authorized by the General Conference of the United Methodist Church, individual congregations of the denomination in the Eastern Pennsylvania Conference and the Central Pennsylvania Conference, endowments, and the Pennsylvania Foundation for Independent Colleges. Also, since at Lebanon Valley College as at most other institutions of higher learning the tuition and other annual charges paid by the student do not cover the total cost of his education, additional income is derived through the Lebanon Valley College Fund. The Fund is supported by industry, alumni, the Board of Trustees, parents of students, and other friends of the college.

Total assets of Lebanon Valley College are approximately \$19,600,000, including endowment funds of about \$3,200,000. Aside from general endowment income available for unrestricted purposes, there are a number of special funds designated for specific uses such as professorships, scholarships, and the library.

Control of the college is vested in a Board of Trustees composed of 49 elected members, 24 of whom represent church conferences; 5 of whom represent the alumni of the institution; 5 of whom represent the faculty; and 15 of whom, including 3 students, are elected at large.

NEW FACILITIES

Blair Music Center

- 600 seat music hall
- 5 classrooms
- 15 teaching studios
- rehearsal hall
- organ choral room
- 2-manual, 26 rank, tracker organ
- 50 individual practice rooms
- 4 organ practice rooms
- instrument storage room
- music storage library
- electronic piano laboratory
- learning resource center
- recording studio
- recording control center

Computer Facilities

- PDP 11/40 Computer built by the Digital Equipment Corporation of Maynard, Massachusetts.
- On-line, time-sharing system
- 28K core memory system
- two removable discs capable of handling 1.2 million words a-piece
- six consoles
- systems library available

ENDOWMENT FUNDS (June 30, 1975)

UNRESTRICTED

For General Purposes

RESTRICTED

Professorship Funds

The Butterwick Chair of Philosophy
Chair of English Bible and Greek
Testament
Josephine Bittinger Eberly Professor-
ship of Latin Language and
Literature
John Evans Lehman Chair of
Mathematics
The Rev. J. B. Weidler Endowment
Fund
The Ford Foundation

Restricted Other

Bishop J. Balmer Showers Lectureship
Fund
Karl Milton Carnegie Fund
Unger Academic Assistance Fund

Special Fund—Faculty Salaries

The Batdorf Fund
E. N. Funkhouser Fund
Mr. and Mrs. C. H. Horn Fund
Mary I. Shumberger Memorial Fund
Woodrow W. Waltermeyer Professor-
ship Fund

Library Funds

Library Fund of Class of 1916
Class of 1956 Library Endowment Fund
Dr. Lewis J. and Leah Miller Leiby
Library Fund

Maintenance Funds

C. B. Montgomery Memorial Room
Fund
Hiram E. Steinmetz Memorial Room
Fund

Equipment Funds

Dr. Warren H. Fake and Mabel A.
Fake Science Memorial Fund
Williams Foundation Endowment Fund

Publicity Funds

Harnish-Houser Publicity Fund

Scholarship Funds

Ministerial Trust #1
Ministerial Trust #2
Ministerial Trust #3
Ministerial Trust #4
Ministerial Trust #5
Alumni Scholarship Fund
Dorothy Jean Bachman Scholarship
Fund
Lillian Merle Bachman Scholarship
Fund
E. M. Baum Scholarship Fund
Andrew and Ruth Bender Scholarship
Fund
Cloyd and Mary Bender Scholarship
Fund
Biological Scholarship Fund
Eliza Bittinger Scholarship Fund
Mary A. Bixler Scholarship Fund
I. T. Buffington Scholarship Fund
Alice Evers Burtner Memorial Award
Fund
Oliver P. Butterwick Scholarship Fund
Mr. and Mrs. D. Clark Carmean
Scholarship Fund
Isaiah H. Daugherty and Benjamin P.
Rabb Memorial Scholarship Fund
Senator James J. Davis Scholarship
Fund
William E. Duff Scholarship Fund
Derickson Scholarship Fund
Samuel F. and Agnes F. Engle Scholar-
ship Fund
M. C. Favinger and Wife Scholarship
Fund
Fred E. Foos Scholarship Fund
C. C. Gingrich Scholarship Fund
Gossard-Plitt-Monteith Memorial Schol-
arship Fund
Margaret Verda Graybill Memorial
Scholarship Fund

Peter Graybill Scholarship Fund
 Jacob F. Greasley Scholarship Fund
 Hilda Hafer Scholarship Fund
 Alice M. Heagy Scholarship Fund
 J. M. Heagy and Wife Scholarship Fund
 Bertha Foos Heinz Scholarship Fund
 Harvey E. Herr Memorial Scholarship Fund
 Edwin M. Hershey Scholarship Fund
 Merle M. Hoover Scholarship Fund
 Judge S. C. Huber Scholarship Fund
 Cora Appleton Huber Scholarship Fund
 H. S. Immel Scholarship Fund
 Henry G. and Anna S. Kauffman and Family Scholarship Fund
 John A. H. Keith Fund
 Barbara June Kettering Scholarship Fund
 Rev. and Mrs. J. E. and Rev. A. H. Kleffman Scholarship Fund
 Dorothea Killinger Scholarship Fund
 A. S. Kreider Ministerial Scholarship Fund
 D. Albert and Anna Forney Kreider Scholarship Fund
 W. E. Kreider Scholarship Fund
 Maud P. Laughlin Scholarship Fund
 Lebanon Steel Foundry Foundation Scholarship Fund
 The Lorenz Benevolent Fund
 Mrs. Edwin M. Loux Scholarship Fund
 The F. C. McKay Fund
 Medical Scholarship Fund
 Elizabeth Meyer Endowment Fund
 Elizabeth May Meyer Musical Scholarship Fund
 Mrs. Elizabeth H. Millard Memorial Scholarship Fund
 Harry E. Miller Scholarship Fund
 Bishop J. S. Mills Scholarship Fund
 Germaine B. Monteux Memorial Scholarship Fund
 Germaine B. Monteux Music Award

Elizabeth A. Mower Beneficiary Fund
 Gene Bowman Neidig Memorial Scholarship Fund
 Philadelphia Lebanon Valley College Alumni Scholarship Fund
 Rev. H. C. Phillips Scholarship Fund
 Pickwell Memorial Music Award
 Quincy Evangelical United Brethren Orphanage and Home Scholarship Fund
 Ezra G. Ranck and Wife Scholarship Fund
 Levi S. Reist Scholarship Fund
 G. A. Richie Scholarship Fund
 Emmett C. Roop Scholarship Fund
 Reynaldo Rovers Memorial Scholarship Fund
 Harvey L. Seltzer Scholarship Fund
 Special Fund
 Mary Ann Ocker Spital Scholarship Fund
 Rev. and Mrs. Cawley H. Stine Scholarship Fund
 Dr. Alfred D. Strickler and Louise Kreider Strickler Pre-Medical Scholarship Fund
 Robert L. Unger Scholarship Fund
 Henry L. Wilder Scholarship Fund
 Jacob C. Winter Memorial Scholarship

Student Loan Funds

Mary A. Dodge Loan Fund
 Daniel Eberly Scholarship Fund
 Glant-Gibson-Glunt Educational Loan Fund
 Esther and Frank Ligan Fund

Prize Funds

Bradford C. Alban Memorial Award Fund
 The L. G. Bailey Award
 Henry H. Baish Memorial Fund
 Andrew Bender Memorial Chemistry Fund
 The Class of 1964 *Quittapahilla* Award Fund

Governor James H. Duff Award
Florence Wolf Knauss Memorial
Award in Music
La Vie Collegienne Award Fund
Max F. Lehman Fund
The David E. Long Memorial Fund
People's National Bank of Lebanon
Achievement Award in Economics
The Rosenberry Award
Wallace-Light-Wingate Award
The Salome Wingate Sanders Award in
Music Education
Francis H. Wilson Biology Award

Annuity Funds

Ruth E. Bender
Paul F. Fulk and Margaret M. Fulk
Rev. A. H. Kleffman and Erma L.
Kleffman
E. Roy Line Annuity
Mary Lutz Mairs
Esta Wareheim
Ruth Detwiler Rettew Annuity Fund

Life Income Agreements

Lutz Memorial Trust

Unitrust Agreement

Richard L. and Ruth W. Davis Fund

ENROLLMENT STATISTICS

SUMMARY OF COLLEGE YEAR, 1974-1975—CUMULATIVE

DAY-TIME	FULL-TIME			PART-TIME			TOTAL		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
Degree Students									
Seniors	112	108	220	7	8	15	119	116	235
Juniors	118	131	249	1	9	10	119	140	259
Sophomores ...	132	119	251	2	1	3	134	120	254
Freshmen	193	161	354	1	1	2	194	162	356
Non-degree	3	3	6	22	17	39	25	20	45
Day-Time Total	558	522	1080	33	36	69	591	558	1149
Evening-Campus									
Classes				39	61	100	39	61	100
University Center									
at Harrisburg ..				89	108	197	89	108	197
Grand Total .	558	522	1080	161	205	366	719	727	1446
Names									
repeated ...				-12	-11	-23	-12	-11	-23
Net Total ...	558	522	1080	149	194	343	707	716	1423
* Music Specials ..				2	16	18	2	16	18
1975 Summer									
Session				67	55	122	67	55	122

* Not included in totals

SUMMARY OF FIRST SEMESTER 1975-1976

DAY-TIME	FULL-TIME			PART-TIME			TOTAL		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
Degree Students									
Seniors	119	127	246	8	9	17	127	136	263
Juniors	99	92	191	5	4	9	104	96	200
Sophomores ...	104	114	218	4	2	6	108	116	224
Freshmen	203	146	349	1	1	2	204	147	351
Non-degree	3	8	11	9	16	25	12	24	36
Day-Time Total	528	487	1015	27	32	59	555	519	1074
Evening-Campus									
University Center				33	38	71	33	38	71
at Harrisburg ..				126	136	262	126	136	262
Grand Total .	528	487	1015	186	206	392	714	693	1407
Names									
repeated ..				-9	-4	-13	-9	-4	-13
Net Total ...	528	487	1015	177	202	579	705	689	1394
* Music Specials ..				1	10	11	1	10	11

* Not included in totals

INFORMATION FOR PROSPECTIVE STUDENTS

ADMISSION

Students are admitted to Lebanon Valley College on the basis of scholarly achievement, intellectual capacity, character, personality, and ability to profit by college experience.

General Information

1. All communications concerning admission should be addressed to the Director of Admissions, Lebanon Valley College, Annville, Pennsylvania 17003.
2. Applications should be submitted as early as possible in the latter part of the junior or the beginning of the senior year of high school or preparatory school.
3. Applications must be filed on forms provided by the office of admissions.
4. Each application must be accompanied by an application fee of \$15.00. This fee is not refundable.
5. A transcript of the secondary school record, on a form provided by the college for that purpose, must be sent by the principal to the director of admissions. May 1 is the deadline for receiving applications.
6. A student transferring from another collegiate institution must present an official transcript of his scholastic record and evidence of honorable dismissal.
7. All new students are required to present on or before August 15 the official health record showing a physician's report of medical examination, and previous immunization records.
8. All applicants shall be considered for admission without regard to their race, religion, creed, or country of national origin.

Admission is based on *total* information submitted by the applicant or in his behalf. Final decision, therefore, cannot be reached until all information has been supplied by the applicant.

Factors Determining Admission

Each candidate for admission will be considered individually and the decision with respect to admission will be based on the following factors:

1. The transcript of the applicant's secondary school record.

2. Recommendation by the principal, teachers, and other responsible persons as to the applicant's special abilities, integrity, sense of responsibility, seriousness of purpose, initiative, self-reliance, and concern for others.
3. A personal interview, whenever possible, with the director of admissions or his designate.
4. College Entrance Examination Board test results: (a) Scholastic Aptitude Tests, (b) Three Achievement Tests—English Composition, Foreign language, and one optional test. All candidates for admission are required to take the Scholastic Aptitude Test and three Achievement Tests—English Composition, Foreign language, and one optional test. Those seeking entrance in September are advised to take these tests no later than in the preceding December and/or January. In exceptional cases the requirement of the CEEB Tests may be waived at the discretion of the Director of Admissions. Full information concerning dates and locations of these test administrations may be obtained by writing to: College Entrance Examination Board, P.O. Box 592, Princeton, N.J. 08540.
5. Applicants for admission may submit the results of the American College Testing Program in lieu of the Scholastic Aptitude Test.
6. Additional test results may be required in special cases.

Admission to the Department of Music

An applicant to the music or music education curriculums is expected to satisfy the general requirements for admission. In addition, the candidate must appear for an audition before members of the music faculty and show evidence of:

1. An acceptable singing voice and a fairly quick sense of tone and rhythm;
2. Ability to sing at sight hymn and folk tunes with a fair degree of accuracy and facility;
3. Ability to sing or to play the piano, organ, or some orchestral instrument at a level representing three years of study.

Recommended Units for Admission

It is recommended that all candidates offer 16 units of entrance credit and graduation from an accredited secondary school or submit an equivalency certificate acquired through examination.

Ten of the 16 units offered for admission must be from the following subjects: English, foreign language, mathematics, science, and social studies.

An applicant for admission whose preparatory courses do not coincide with the distribution of subject units (see below) may be considered if his academic record is of high quality and if he appears to be qualified to do college work satisfactorily. All entrance deficiencies must be removed before sophomore academic status will be granted.

DISTRIBUTION OF SUBJECT UNITS

English	4 units
Foreign Language (in one language)*	2 "
Mathematics	2 "
Science (laboratory)	1 "
Social Studies	1 "
Electives	6 "
<hr/>	
Total required	16 "

Transfer Credit

A student applying for advanced standing at Lebanon Valley College after having attended another accredited institution of higher education shall submit an official transcript of his record and evidence of good standing to the director of admissions. If requested, he must provide copies of the appropriate catalogs for the years of attendance at the other institution or institutions.

Credits are accepted for transfer provided that the grades received are C- (1.7) or better and the work is equivalent or similar to work offered at Lebanon Valley College. Grades thus transferred count for hours only, not for quality points.

Students, with the exception of those in the medical technology and nursing programs, who transfer from two-year institutions are required to earn at least 60 hours of credit from a four-year institution for graduation. A minimum of 30 hours must be taken at Lebanon Valley College by all students to meet the residence requirement.

Transfer students may be required to take placement examinations to demonstrate adequate preparation for advanced courses at Lebanon Valley College.

Subject to the conditions listed in the second paragraph, Lebanon Valley College will recognize for transfer credit a maximum of 15 hours of USAFI course work provided such credit is recommended by the American Council on Education's publication, *A Guide to the Evaluation of Educational Experiences in the Armed Services*.

Credit will not be granted for correspondence courses.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Credit is granted for acceptable achievement on such Subject Examinations of the College Level Examination Program (CLEP) as are approved by the appropriate College department and the Curriculum Committee. Students shall have achieved a scaled score of 50 or better on the objective section and shall have earned a grade of C or better, as determined by the appropriate department, on the essay section of the examination.

Examinations may be taken prior to admission or after a student has

* If an applicant cannot present the two units of foreign language, he will be required to take a minimum of two years of one language in college. His credits for this work will be counted toward graduation requirements.

matriculated at the College. Credit is given only to students who have matriculated at the College. Applicants for admission interested in receiving credit should consult with the Office of Admissions; current students should consult with the Vice President and Dean of the College. Applicants interested in the CLEP Program should write to the Program Director, College Level Examination Program, P.O. Box 1821, Princeton, NJ 08540, for a CLEP Bulletin of Information for Candidates, which provides information on examinations and the dates and locations of test administrations.

Advanced Placement

Advanced placement and/or credit in certain areas may be granted to entering students who make scores of 3, 4, or 5 on the College Board Advanced Placement examination.

Advanced placement without credit may be granted on the basis of the Achievement Tests of the College Board Examinations or such other proficiency tests as may be determined by the assistant dean of the college and by the chairman of the department in which advanced placement is sought.

STUDENT FINANCES

Lebanon Valley College is a private, non-profit institution. It derives its financial support from endowment and gifts from the United Methodist Church, alumni, industry, friends, and from the tuition, fees, and other charges paid by the students. The cost to the student is maintained at a level consistent with adequate facilities and high quality instruction.

Fees and Deposits

An *application fee* of \$15.00 which is not refundable is charged each applicant against the cost of processing his application for admission. An *admission deposit* of \$100.00, payable within ten days of notification of acceptance, is required of all new (including transfer) students. Until this deposit is paid the student is not guaranteed a place in the entering class. The admission deposit is not refundable; it will be applied to the student's account upon registration.

1976-1977 Fee Structure for Full-time Degree Candidates

	Per Semester	Per Year
Comprehensive Fee	\$1,401.50	\$2,803.00
Fee includes the following per semester:		
Tuition \$1,367.50		
Fees 34.00		
Student Insurance	\$ 30.00	\$ 30.00
Total Charges for Commuting Student	<u>\$1,431.50</u>	<u>\$2,833.00</u>
Room	280.00	560.00
Dining Hall	420.00	840.00
Total Charges for Resident Student	<u>\$2,131.50**</u>	<u>\$4,233.00**</u>
Private Music Instruction (1/2 hour per week)		
* Beyond the First Half Hour	\$82.00	per semester
Transcript in Excess of One		\$2.00

A required insurance fee is collected in the first semester of the student's enrollment and a pro-rata charge applies to the student who first enrolls in the second semester.

The contingency deposit in the amount of \$25.00 must be made before registration and is required of all full-time students and will be refunded upon graduation or withdrawal from college provided no damage has been caused by the student. All student breakage that occurs in college-operated facilities will be charged against this deposit and the amount must be repaid to the college within 30 days of notice to the student.

A fee of \$10.00 is charged each student who does not register for classes during any prescribed pre-registration or registration period. A fee of \$5.00 is charged for every change of course made at the student's request after registration.

The fee for part-time students (less than 12 credit hours per semester) is \$82.00 per semester credit hour plus a \$3.00 registration fee.

Auxiliary School Fee Structure (Evening and Summer)

- Tuition, \$65.00 per semester credit hour
- Registration fee, \$3.00
- Late preregistration or registration fee, \$5.00
- Change of registration fee, \$5.00

Payment of Fees and Deposits

Semester charges are due and payable in full on August 10 (first semester) and January 2 (second semester) as a condition for registration. Those preferring to pay semester charges in monthly installments are

* The first half hour of private music instruction is included in the basic tuition charge of all full-time music students.

** The fee structure (student charges) as published in this catalog are subject to change or revision at the discretion of the college.

invited to consult with the office of the controller regarding deferred payment plans offered by various financial institutions. Arrangements for deferred payment plans shall be completed early enough to assure payment of bills no later than the date that semester charges are due and payable (August 10 and January 2).

A satisfactory settlement of all college accounts is required before grades are released, transcripts are sent, honorable dismissal granted, or degree conferred.

Refund Policy

Refunds, as indicated below, are allowed only to students who officially withdraw from the college by completing the clearance procedure:

Period since beginning of classes in the semester	% of tuition refunded
Less than three weeks	75%
Over three weeks	0%

The above refund schedule also applies to part-time students, and to full-time students who withdraw from a course or courses so as to reduce the remaining course load to less than 12 semester credit hours.

A refund on board charge is allowed for the period beginning after honorable official withdrawal. No refund is allowed on room charges.

No refund is allowed on student charges when a student retains his class standing during his absence from college because of illness or for any other reason.

Residence Halls

Residence hall rooms are reserved only for those returning students who make an advance room reservation deposit of \$50.00. (Receipt must be presented at the time of room sign-up which occurs during April.)

Occupants must pay for any breakage or loss of furniture, or any other damage for which they are responsible. Damage not assignable to an individual occupant may be prorated to accounts of occupants within the responsible area (wing, hall, floor, dorm, etc.).

Each room in the men's residence halls is furnished with chests of drawers, book case, beds, mattresses, chairs, and study tables. Drapes are provided in Funkhouser, Hammond, and Keister Halls. Students must provide bedding, rugs, lamps, and all other furnishings.

Each room in the women's residence halls is furnished with beds, mattresses, chairs, dressers, book case, and study tables. Drapes are provided in Mary Green and Vickroy Halls. Other desired furnishings must be supplied by the student.

Students rooming in residence halls may not sublet their rooms to commuting students or to others.

Since Lebanon Valley College is primarily a boarding institution, all students are required to live in college-owned or controlled residence halls. Exceptions to the above are: married students, students living with immediate relatives, or those living in their own homes who commute daily to the campus.

Should vacancies occur in any of the residence halls, the college reserves the right to require students rooming in the community to move into a residence hall.

The college reserves the right to close all residence halls during vacations and between semesters.

The college reserves the right to inspect any student's room at any time. Periodic inspection of residence halls will be made by members of the administration.

The college is not responsible for loss of personal possessions by the students. It is recommended that each student consider the need to provide private insurance coverage.

Meals

All resident students are required to take their meals in the college dining rooms. Commuting students may arrange for meals Monday through Friday, on a semester basis, if space is available.

FINANCIAL AID

Lebanon Valley College offers financial aid to deserving students who have been accepted for admission insofar as its aid funds permit. Students apply for financial aid by submitting the Parents' Confidential Statement (PCS) directly to the College Scholarship Service, Box 176, Princeton, New Jersey 08540. Applications for financial aid (PCS) are available to high school seniors in the guidance counselor's office and to college upperclassmen in the financial aid office. It is not necessary to await notification of acceptance to Lebanon Valley College before applying for financial aid; in fact, application for financial aid should be made as early as possible and no later than February 1.

All financial aid is awarded for one year on the basis of financial need (except Presidential Scholarships). The PCS form assists the financial aid officer in determining the applicant's need for financial aid. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. Students receiving aid from sources outside the college are required to report the amount and source of financial aid to the financial aid office. The college reserves the right to review and to adjust the financial aid offering and award accordingly.

The college may require that a notarized or certified copy of the parents' most recent income tax return (Form 1040) be sent directly to the Financial Aid Office, Lebanon Valley College. If a notarized copy is unavailable a "Request for Copy of Tax Return" Form 4506 should be secured from the nearest office of the Internal Revenue Service.

All financial aid is reviewed annually. Eligibility for renewal of financial aid is based upon need as established on the renewal PCS, satisfactory conduct, and maintenance of the required scholastic average.

Presidential Scholarships

Presidential Scholarships are awarded to entering students by the

president of Lebanon Valley College in recognition of superior attainment in high school study. A 2.5 cumulative grade-point average each semester is required for automatic reinstatement of these awards.

Grants-in-Aid

Grants-in-aid are available to entering freshmen and upperclassmen who have filed a Parent's Confidential Statement Form (PCS) and who have demonstrated capability either in high school or in college work. A 2.0 cumulative grade-point average each semester is required for automatic continuation of these grants. Annual renewal of the PCS is required for upperclassmen.

Basic Educational Opportunity Grants

Basic Educational Opportunity Grants are available to students who qualify under Federal Criteria. Application Forms may be secured from High School Guidance Counsellors as well as College Financial Aid Offices.

Supplemental Educational Opportunity Grants

Educational grants range from \$200 to \$1,000 per academic year and are based upon genuine need as stipulated by the federal government and supported by the Parents' Confidential Statement.

Student Loans

National Direct Student Loans are available under the Higher Education Act of 1965 as amended. Qualifying students may borrow up to \$1,000 per year. A Parents' Confidential Statement must be submitted.

Student Employment Programs

A student in need of financial assistance may be assigned a campus employment position. The College Work Study Program is underwritten by the federal government to the extent of 80 percent of the earnings.

In addition, the college operates its own student employment program affording opportunities for students to work in a variety of positions as their schedules permit.

For further information, write to the Financial Aid Officer, Lebanon Valley College, Annville, Pennsylvania 17003.

ACADEMIC PROGRAMS & PROCEDURES

REQUIREMENTS FOR DEGREES

Lebanon Valley College confers five bachelor degrees. They are: Bachelor of Arts, Bachelor of Science, Bachelor of Science in Chemistry, Bachelor of Science in Medical Technology, and Bachelor of Science in Nursing.

The degree of Bachelor of Arts is conferred upon students who complete the requirements for graduation in the following areas, and who are recommended by the faculty and approved by the Board of Trustees: English, foreign languages, French, German, history, mathematics, music, philosophy, physics, political science, psychology, religion, social science, sociology, and Spanish.

The Degree of Bachelor of Science is conferred upon students who complete the requirements in the following areas, and who are recommended by the faculty and approved by the Board of Trustees: actuarial science, biology, chemistry, cooperative engineering, cooperative forestry, economics and business administration, elementary education, mathematics, music education, and physics.

The professional degrees of Bachelor of Science in Chemistry, Bachelor of Science in Medical Technology and Bachelor of Science in Nursing are conferred upon students who complete the requirements in the respective professional areas and who are recommended by the faculty and approved by the Board of Trustees.

Semester Hours

The requirements for degrees are stated in "semester hours of credit" which are based upon the satisfactory completion of courses of instruction. Generally, one semester hour of credit is given for each class hour a week throughout the semester. In courses requiring laboratory work, not less than two hours of laboratory work a week throughout a semester are required for a semester hour of credit. A semester is a term of approximately 15 weeks.

Candidates for degrees must obtain a minimum of 120 semester hours credit in academic work in addition to the required courses in freshman and sophomore physical education. However, a student who has a physical disability may be excused (on recommendation from the college physician) from the requirement in physical education.

Major

As a part of the total requirement of 120 hours, every candidate for a degree must present at least 24 semester hours of course work in one

department (this is his major). The initial selection of a major may be indicated or recorded any time before the end of the student's sophomore year. Such a choice of department or curriculum in which he will pursue work of special concentration must be made by the time of registration for the junior year.

A student shall be accepted as a major in a department so long as he has not demonstrated (by achieving less than the minimum grade-point average in the desired major) that he is incapable of doing satisfactory work in the department. A student accepted as a major has the right to remain in that department, except by special action of the dean of the college, as long as he is in college.

Substitution or waiving of specific courses required for the major may be approved by the departmental chairmen or advisers in a special curriculum upon student request.

A student desiring to major in two subject areas should consult his current adviser and the chairman of the department of his proposed second major concerning requirements and procedure.

Examinations

Candidates for degrees are required to take end of course examinations if scheduled.

Residence Requirement

Degrees will be conferred only upon those candidates earning in residence a minimum of 30 semester hours out of the last 36 taken before the date of the conferring of the degree, or before the transfer to a co-operating program. Residence credit is given for course work completed in regular day classes and in evening and summer session courses taken on campus.

Grade-Point Averages

Candidates for degrees must also obtain a cumulative grade-point average of 1.75, computed in accordance with the grading system indicated below.

In addition, candidates must earn a grade-point average of 2.0 in the major field of study.

Only grades received in courses taken on campus or in courses staffed by Lebanon Valley College at the University Center at Harrisburg are used to determine grade-point averages.

System of Grading and Quality Points

The work of a student in each subject is graded A, B, C, D, or F, with the plus and minus available to faculty members who wish to use them. These grades have the following meanings:

- A—distinguished performance
- B—superior work
- C—general satisfactory achievement
- D—course requirements and standards satisfied at a minimum level
- F—course requirements and standards not satisfied at a minimum level

A student may not take any course which has as a prerequisite a course that he has failed. If a student fails in a course twice, he may not take it a third time.

In addition to the above grades the symbols "I," "W," "WP," and "WF" are used on grade reports and in college records. "I" indicates that the work is incomplete (that the student has postponed with the prior consent of the instructor and for substantial reason, certain required work), but otherwise satisfactory. This work must be completed within the first six weeks of the beginning of the semester following, or the "I" will be converted to an F. Appeals for extension of time beyond six weeks must be presented in writing to the assistant dean of the college not later than one week after the beginning of the next semester.

W indicates withdrawal from a course through the eighth week of classes in the semester. In case of a withdrawal from a course thereafter through the last day of classes in the semester, the symbol "WP" will be entered if the student's work is satisfactory, and "WF" if the work is unsatisfactory. The grade of "WF" is counted as an F in calculating grade-point averages.

For courses in which no academic credit is involved, student work is evaluated as either S (Satisfactory) or U (Unsatisfactory).

For each semester hour credit in a course in which a student is graded A, he receives 4 quality points; A-, 3.7; B+, 3.3; B, 3; B-, 2.7; etc. F carries no credit and no quality points.

Pass/Fail Grading

After attaining sophomore standing (28 semester hours credit), a student may elect to take up to two courses per semester and one one-semester course per summer session on a P/F basis, but only six of these courses can be counted toward graduation requirements.

Any courses not being counted toward the fulfillment of the general requirements or the major requirements may be optional on a pass/fail basis. Any prerequisite course taken on a P/F basis and successfully completed will satisfy the prerequisite.

Each department may, with the approval of the dean of the college, designate certain courses, including those required for the major, in which the grading will be P/F for all students enrolled. Such courses may not be taken for regular grading even if a student desires it. Any course so designated shall not count toward the total number of courses available P/F to the student.

Any course taken on a P/F basis will be graded P/H (pass with distinction), P (pass), or F (fail). P/H is defined as B+ and up, P is defined as D- through B; and F is below D-.

Any course completed on a P/F basis shall be counted toward graduation requirements, but only an F grade shall be included in computing the grade-point average. All passing grades shall be treated on the record as is transfer credit.

The student will indicate at registration or through the eighth week of classes in the semester the courses that he has elected to take on a P/F basis. He may, with the approval of his adviser, change his option for P/F grading to the regular grading basis or from regular grading to P/F grading during the same period.

Instructors may be informed of the grading option selected by the student only after semester grades in the course have been recorded. Instructors will submit for each student an A through F grade which will be converted to P/H, P, or F for students selecting this grading system.

Transfer Students

Students transferring from two-year institutions (except those in the medical technology and nursing programs) are required to have at least 60 hours of work at a four-year institution for graduation. All students must take a minimum of 30 hours at Lebanon Valley College to meet the residence requirement. (See page 23.)

Students transferring from other institutions must secure a grade-point average of 1.75 or better in work taken at Lebanon Valley College, and must meet the 2.0 grade-point average in their major field.

Attendance at May Baccalaureate and Commencement Programs

All seniors are required to attend the May baccalaureate and commencement programs at which their degrees are to be conferred.

Degrees will be conferred *in absentia* only for the most compelling reasons and only upon a written request approved by the assistant dean of the college. Such requests must be submitted at least two weeks prior to the date of commencement.

Faculty approval is required for the conferring of the degree and the issuance of the diploma in any case of willful failure to comply with these regulations.

GENERAL AND DISTRIBUTION REQUIREMENTS

REQUIREMENT AND AREA	Semester Hours	REQUIRED OR ELIGIBLE COURSES
I. General Requirements:		
English Composition*	6	En 111/112
Foreign Language*	6	Fr 111, 112; Ger 111, 112, 113, 114; GK 211, 212; La 111, 112; Ru 111, 112; Sp 111, 112
Intermediate Level of any language		
Religion	6	Re 111, 112, <i>OR</i> Re 111 or 112, <i>and</i> Re 120 or 140
Physical Education (4 semesters)	0	
II. Distribution Requirements:		
<i>Humanities:</i> Three one-semester courses (not more than two from one field) to be chosen from among art or music treated as one field; interdisciplinary courses; literature as offered by the Department of English; literature as offered by the Department of Foreign Languages; philosophy; religion	9	Ar 110, 201/202; En 221/222, 225/226, 227/228, 229, 321/322, 338; FL 315H/316H; Fr or Ger or Sp 115, 116, 215, 221/222, 331/332, 441/442; Gk 321, 322, 431, 432; IC 130; MS 290; Mu 100 or 341/342; all philosophy courses except Ph 120, 365 and 500; Re 211, 222; and Re 120, 140 if not used to meet religion general requirement.
<i>Social Sciences:</i> Three or four one-semester courses (from at least two fields) to be chosen from among economics, history, political science, sociology	9-10	Ec 110, 120; all history courses except Hi 412 and 500; MS 260; all political science courses except PS 217, 412, 500; all sociology courses except So 311, 342, 410, 422, 432, 500.
<i>Natural Sciences:</i> Three one-semester courses (not more than two from one field) to be chosen from among biology, chemistry, mathematics, physics, psychology. At least one course must be a laboratory science.	9-12	Bi 101/102, 111/112; Ch 111, 112; Ma 100, 102, 111, 112, 161, 162, 170; Phy 100, 110, 103, 104, 111, 112; Psy 110, 235, 236, 444.

* Requirement can be met by proficiency examinations selected by the chairman of the department involved in consultation with the assistant dean of the college, or through the Advanced Placement Program. The foreign language requirement may also be met by the Foreign Language Achievement Test in some instances.

No course in major fields shall be used to meet general or distribution requirements, except that a Social Science major may use nine (9) hours of the Major Requirement to meet Social Science Distribution Requirements.

No course taken as a general requirement may count toward a major.

Credit may be given for an elementary language *if* the student had two (2) or more years of the same language in secondary school *and* the Department of Foreign Languages recommends that credit be given by reason of inadequate background of the student to take the intermediate level. No credit is given for an elementary language course if credit for the same elementary language course was given on transfer from another institution.

THE COLLEGE HONORS PROGRAM

The Honors Program provides an opportunity for superior students to develop and to challenge their intellectual abilities, to challenge their originality and intellectual curiosity, and to nurture academic excellence both in students and faculty.

The Program has two phases: lower division Freshman-Sophomore Honors; upper division Honor Studies and Departmental Honors.

Prospective freshmen are selected, after interviews with members of the Honors Subcommittee of the Academic Life Committee and Honors instructors, on the basis of class rank, CEEB scores, Presidential Scholarship Examinations, and other useful information. Others may be chosen by a similar procedure by the Honors Subcommittee toward the end of the first semester, on the basis of recommendations invited from all instructors.

To graduate with college honors, a student must earn twelve semester hours in lower division honors and nine semester hours in upper division honors. In upper division work, three semester hours must be gained in Honors Studies and three in Independent Study. A student's grade-point average must be 3.0 overall and in Honors work.

FRESHMAN-SOPHOMORE HONORS

Freshman-Sophomore Honors may be conducted in either lecture or seminar format; all students are expected to contribute to seminar discussion. Participation in Freshman-Sophomore Honors is restricted to Honor students; exceptions are made only with consent of the instructor and the Honors Subcommittee of the Academic Life Committee. Enrollment in Freshman-Sophomore Honors sections should be limited to 15.

Freshman-Sophomore Honors sections are offered in the following courses which meet the appropriate general and distribution requirements: English 111/112, English 227/228, Religion 111/112, Economics 110/120, Foreign Language 315H/316H, History 125/126, and Psychology 110.

HONORS STUDIES

Honors Study is a team effort in independent work with the guidance of one or more instructors. Honors Study generally deals with an interdepartmental subject, is restricted to Honors Students at the junior-senior level, and consists of a team of no more than seven students. An Honors student may participate in an Honors Study after completing nine hours in Freshman-Sophomore honors. In appropriate instances, the Curriculum Committee will be petitioned to approve courses to meet the distribution requirements.

DEPARTMENTAL HONORS

Departmental Honors is taken in the major field in junior and senior years. The program consists of a reading and/or research program producing a thesis or an essay. The latter is done on a problem or subject

of the student's own choosing under the supervision of a faculty adviser. Opportunity also exists to do creative work. A maximum of nine hours credit may be earned in departmental honors.

AUXILIARY SCHOOLS

Summer, Evening, Extension

Summer sessions, evening classes on campus, and extension classes in the University Center at Harrisburg have enabled teachers, state employees, and others in active employment to attend college courses and secure academic degrees. By a careful selection of courses, made in consultation with the appropriate adviser, students can meet many of the requirements for a baccalaureate degree. Some courses may be taken for provisional and permanent teaching certification; others may be taken with the aim of transferring credit to another institution. Many courses lead to professional advancement or are of direct benefit to persons in business or industry, while others assist in broadening the student's vocational, social, and cultural background.

Separate brochures are published for the summer session and the evening classes. For copies or for other information pertaining to the summer session or evening classes write to the Assistant Dean of the College, Lebanon Valley College, Annville, Pennsylvania 17003.

Summer Session

Regular enrolled students may, by taking summer session courses, meet the requirements for the bachelor's degree in three years.

Campus Evening Classes

Evening classes are offered on the campus, Monday through Thursday, and carry residence credit.

The evening school includes an *ENRICH* Program in Business Administration. The student receives a certificate of achievement upon successful completion of the 60 semester-hour program.

University Center at Harrisburg

Extension classes are offered in the William Penn High School, Third and Division Streets, and at the Center's campus, 2991 North Front Street, Harrisburg, 17110, on Monday through Thursday evenings and on Saturday mornings during the regular academic semesters. Classes meet during the summer sessions on Monday, Tuesday, and Thursday evenings. Lebanon Valley College's extension program in Harrisburg is carried on in conjunction with Elizabethtown College, Temple University, The Pennsylvania State University, and the University of Pennsylvania.

All students admitted and enrolled for a degree at the college are required to secure the permission of their advisers and the assistant dean of the college prior to enrolling for any courses at the University Center at Harrisburg.

For details pertaining to the University Center at Harrisburg write

or call the director at 2991 North Front Street, Harrisburg, Pennsylvania 17110, at 238-9694 during the day or 238-9696 during the evening.

GERMANTOWN METROPOLITAN SEMESTER

Lebanon Valley College sponsors an urban semester program through the Metropolitan Collegiate Center of Germantown, Philadelphia, Pennsylvania. This is a one-semester program of a pre-professional internship and academic seminars relating to the city. The program is designed especially for students who are interested in cities and the opportunity of living and working in a pluralistic urban world; or who want the practical and personal advantages of a concrete work experience especially for purposes of vocational and educational decisions.

Internship placements are available in a diverse range of social service, mental health, law enforcement, medical research, and health-care-delivery agencies. 15 academic credits are offered in the program. Metropolitan Semester students live in housing approved by the Center staff. Total costs are comparable to those of a semester on campus.

JUNIOR YEAR ABROAD

A Lebanon Valley student may spend his junior year abroad in study under a program administered by an accredited American college or university, or in a program approved by Lebanon Valley College. Such a student must have maintained a B average at Lebanon Valley College, must be proficient in the language spoken in the country in which he will study, and must be a person who in the judgment of the assistant dean of the college and the faculty will be a worthy representative of his own country. His proposed course of study must be approved by the chairman of his department and the assistant dean of the college.

MARINE BIOLOGY PROGRAM

Lebanon Valley College offers a limited program in marine biology in cooperation with the University of Delaware College of Marine Studies and the University of Georgia Marine Institute.

Under this program the student takes the necessary fundamental science courses on campus and spends six to ten weeks in the summer between his junior and senior years at the University of Delaware College of Marine Studies, Lewes, Delaware. Nine credits of marine science work can thus be earned for transfer to Lebanon Valley College.

In addition, short field trips are made to Lewes as part of the ecology course (Biology 403). An extended field trip is made in the senior year to Sapelo Island, site of the University of Georgia Marine Institute. Opportunities are given here for study of various aspects of the ecology of an undisturbed marsh ecosystem and of basic oceanographic research methodology.

The college believes that the best preparation for a career in marine biology is a thorough grounding in biology, chemistry, physics, and mathematics. With the addition of the specific work in ecology and marine

science, on campus and at the cooperating institutions, a student is well prepared both for an immediate career as well as for graduate work in the field.

MERRILL-PALMER INSTITUTE SEMESTER

Usually during their junior year, selected students may spend a semester in Detroit, Michigan, at the renowned Merrill-Palmer Institute, enrolled for courses and involved in a practicum experience, either working with children or with community organization. The theme of the study program is "Children and Families in Urban Communities." In the student residences small groups from many different colleges and universities and from all sections of the United States participate cooperatively in the management and social affairs of their houses, with 12-18 persons in each residence.

WASHINGTON SEMESTER PROGRAM

Students at Lebanon Valley College are eligible to participate in the Washington Semester Program which is offered in cooperation with American University in Washington, D.C. This includes the study of the American governmental and political system as a whole (the Washington Semester), the urban polity and intergovernmental decision-making in urban affairs (the Washington Urban Semester), American foreign policy formulation and implementation (the Foreign Policy Semester), and international development (the International Development Semester). Students in the first two programs take a seminar, which includes meetings with public officials, political figures, private interest group representatives, and other knowledgeable persons; an individual research project determined in consultation with instructors at Lebanon Valley and American University; and either an elective course at the university or an internship program arranged with a political or administrative office in Washington. The Foreign Policy Semester and the International Development semester are modules, expected to occupy the student's full academic time.

The program is open to juniors and seniors in any major field who have at least a 2.5 average, have had the basic courses in American national government, and are recommended by the chairman of the department of history and political science. Two students from the college will be selected each November by American University to participate in the following spring semester. Students in the program have the same status as full-time undergraduates at American University and will receive full credit for one semester's work toward their degree at Lebanon Valley College.

ACADEMIC PROCEDURES

Registration and Pre-Registration

Students are required to register for classes on official registration days and on designated pre-registration days of each semester. Informa-

tion concerning the dates for official registration and pre-registration is listed in the college calendar, page 3.

Late Registration and Pre-Registration

Students registering later than the days and hours specified will be charged a late registration fee of ten dollars. Students desiring to register later than one week after the opening of the semester will be admitted only by special permission of the assistant dean of the college. Students who do not pre-register during the designated time will be charged a late pre-registration fee of ten dollars.

Change of Registration

Change of registration, including pass/fail elections, when necessary, must be made over the signature of the adviser. In most instances registration for a course will not be permitted after the course has been in session for one full week. With the permission of his adviser, a student may withdraw from a course at any time through the last day of classes of the semester. (See page 23 for grading policy.) A fee of \$5.00 is charged for every change of course made at the student's request after registration.

Orientation for New Students

A spring orientation day is held annually for incoming students. At this time the activities include a general orientation to the college, counseling with academic advisers, and pre-registration for courses. Special sessions for parents are a vital part of the program.

An orientation period of several days at the beginning of the college year is provided to help new students, both freshmen and transfers, to become familiar with their academic surroundings. This time is devoted to lectures, social activities, and informal meetings with upperclassmen and members of the faculty.

During the first semester all freshmen and transfer students are required to participate in an orientation course which includes a series of lectures and discussions on college procedures, campus activities, and methods of study.

Discontinuance of Course

The college reserves the right to withdraw or discontinue any course for which an insufficient number of students have registered.

Repetition of Courses

No student shall be permitted to repeat for credit, grade, or quality points a course for which he has already received a passing grade.

If a course on campus or staffed by Lebanon Valley College at the University Center at Harrisburg is failed but is later repeated and passed at either location, the failure is ignored in calculation of cumulative grade-point averages in the semester in which the course is passed or thereafter. The grade of F remains on the permanent record card, with an asterisk used to indicate that the course was repeated and passed.

Concurrent Courses

A student enrolled for a degree at Lebanon Valley College may not carry courses concurrently at any other institution without the prior consent of his adviser and the assistant dean of the college. Neither may a regular student carry work concurrently in evening or extension courses without the prior permission of his adviser and the assistant dean of the college.

A student registered at Lebanon Valley College may not obtain credit for courses taken in other colleges, including the University Center at Harrisburg, during the summer unless such courses have prior approval of his adviser and the assistant dean of the college.

Auditing Courses

Students are permitted to register to audit courses with the consent of the instructor and the academic adviser. Audited courses are counted in considering the course load relative to limit of hours (overload). The regular tuition fee is charged to part-time students. Neither grade nor credit is given either at the time the course is audited or thereafter. A change of registration from credit to audit or from audit to credit must be accomplished by the end of the fifth week of classes of the semester.

Faculty Advisers

Each student is assigned a faculty adviser who serves in the capacity of friendly counselor.

The initial selection of a major may be indicated or recorded any time before the end of the student's sophomore year. Such a choice of department or curriculum in which to pursue work of special concentration must be made by the time of registration for the junior year. This department or curriculum shall be known as his major. A student shall be accepted as a major in a department so long as he has not demonstrated (by achieving less than the minimum grade-point average in the desired major) that he is incapable of doing satisfactory work in the department. The chairman or another member of the department or the adviser of the curriculum in which the student has elected to major becomes the adviser for that student. The adviser's approval is necessary before a student may register for or withdraw from any course, select or change his pass/fail elections, or change registration from credit to audit or from audit to credit.

Arrangement of Schedules

Each student arranges his course of study and his class schedule in consultation with, and by approval of, his faculty adviser. Students already in attendance do this during pre-registration periods. New students accomplish this on the spring orientation day.

Limit of Hours

To be classified as full-time, a student must take at least twelve se-

mester hours of work. Sixteen semester hours of work is the maximum permitted without approval of the adviser and special permission of the assistant dean of the college; physical education carries no credit. Audited courses are counted in determining the course load.

The privilege of carrying extra hours will be granted only for compelling reasons and only when a satisfactory grade level has been maintained for the previous semester.

Academic Classification

Students are classified academically at the beginning of each year. Membership in the sophomore, junior, or senior classes is granted to those students who have earned a minimum of 28, 56, or 84 semester hours credit respectively.

All entrance deficiencies must be removed before the academic status of sophomore is granted.

Counseling and Placement

Lebanon Valley College recognizes as part of its responsibility to its students the need for providing sound educational, vocational, and personal counseling. Measures of interest, ability, aptitude, and personality, in addition to other counseling techniques, are utilized in an effort to help each student come to a fuller realization of his capabilities and personality. An important part of the counseling program consists of a series of lectures and discussions conducted as a non-credit orientation course for new students.

Placement services are provided by the college for aiding students in procuring part-time employment while in college and in obtaining positions upon graduation. A current file is maintained which contains information about positions in various companies and institutions, civil service opportunities and examinations, entrance to professional schools, assistantships, and fellowships. Representatives of business, industry, and educational institutions visit the campus annually to interview seniors for prospective employment. A file of credentials and activities of those students availing themselves of the services is available to prospective employers. Graduates may keep their individual files active by reporting additional information to the director of industrial placement.

A Teacher Placement Bureau which assists students in finding positions is maintained.

Records of students' credentials in all areas of student activities are on file.

ADMINISTRATIVE REGULATIONS

The rules of the college are designed to provide for proper regulation of the academic community. The rules and regulations as stated in this bulletin are announcements and in no way serve as a contract between the student and the college. Attendance at the college is a privilege and not a right. The student by his act of registration concedes to the college the right to require his withdrawal any time deemed necessary to safe-

guard the ideals of scholarship and character, and to secure compliance with regulations. It is expected that the conduct of all campus citizens will conform to accepted standards. All students are required to respond to communications sent by any duly constituted authority of the college.

Class Attendance

Each student is held responsible for knowing and meeting all requirements for each course, including regular class attendance. Because of differences in various disciplines, specific regulations governing class attendance are set by each department, approved by the dean of the college, and administered by the instructor. At the opening of each course the instructor will clearly inform the students of the regulations on class attendance. Violations of class attendance regulations will make the student liable to being dropped from the course with a failing grade, upon the recommendation of the instructor and with the approval of the assistant dean of the college.

In case of absence from class because of illness and for most other reasons, the student speaks directly with the instructor concerning the absence, whether anticipated or not, even if an examination has been scheduled. The student informs the assistant dean of the college *only* if the absence could not be anticipated *and* the period of absence will be a week or more. The assistant dean of the college informs faculty members of students who will be absent from classes because of participation in official functions of the college. Students on academic probation are permitted only excused absences.

Excused absences do not absolve the student from the necessity of fulfilling all course requirements.

Academic Dishonesty

Instances of open and conclusive academic dishonesty are dealt with in accordance with the following regulations:

For the first offense the faculty member shall have the authority to fail the student in the course.

For the second offense the student shall be failed in the course and additional action taken, up to and including expulsion from college, if deemed warranted by the dean of the college.

For the third offense, if the second act of dishonesty did not warrant expulsion in the opinion of the dean of the college, the student shall be punished by failure in the course and expulsion from the college.

Chapel-Convocation Program

A chapel-convocation program is held regularly each week. The weekly programs are augmented by additional events at other times during the semester. From the total of twenty-four programs each full-time student will select not less than twelve to fulfill his attendance requirement for the semester. For each unexcused absence, resulting in less than twelve attendances, one hour will be added to the hours required for graduation.

Hazing

Hazing is strictly prohibited. Any infringement by members of other classes upon the personal rights of freshmen as individuals is interpreted as hazing.

Cars and Student Parking

All cars owned or operated by Lebanon Valley College students must be registered with the office of the dean of students. Violations of established parking regulations will result in fines and may result in suspension or revocation of parking privileges.

Transcripts

Each student, former student, or graduate is entitled to one transcript of his college record without charge. For each copy after the first, a fee of two dollars is charged.

Regulations Regarding Academic Probation, Suspension, Dismissal, Withdrawal

A. Probation

A student can be placed on academic probation by the dean of the college or suspended or dismissed if his academic standing fails to come up to the grade-point average shown in the following table:

	Probation	Suspension or dismissal
1st semester	1.25	
2nd semester	1.50	1.25 cumulative
3rd semester	1.65	
4th semester	1.75	1.50 cumulative
5th semester	1.75	
6th semester	1.75	1.65 cumulative
7th & 8th semesters	1.75	in all courses

A student placed on academic probation is notified of such status by the dean of the college and informed of the college regulations governing probationers. Students on probation are required to regulate their work and their times so as to make a most determined effort to bring their work up to the required standard.

When a student is placed on academic probation, faculty and parents are notified by the dean of the college. The dean of the college may terminate the period of probation of any student. Usually this occurs at the end of a semester or summer session.

Infraction of the following regulations governing probationers render a student liable to dismissal:

1. No unexcused class absences will be permitted.
2. Any office or activity in any college organization that involves such expenditure of time as to jeopardize the successful pursuit of academic work must be relinquished.

B. Suspension

1. A student who obviously fails to achieve at a level commensurate with his measured ability may be suspended for at least one semester.

2. A student suspended for academic reasons is not eligible for reinstatement for at least one semester, preferably two.

3. A student seeking reinstatement to Lebanon Valley College must apply in writing to the dean of the college.

4. Students suspended for academic reasons are not permitted to register for work in the auxiliary schools except for the most compelling reasons and then only with the approval of the assistant dean of the college.

5. A student may be suspended without a prior period on probation.

C. Dismissal

A student dismissed for academic reasons is not eligible for readmission.

D. Withdrawal from College and Readmission

Official withdrawal from the college is accomplished only by the completion of withdrawal forms obtained in the office of the assistant dean of the college and registrar. This is the sole responsibility of the student.

Application for readmission will be considered only if the formal withdrawal procedure has been followed at the time of withdrawal.

STUDENT ACTIVITIES

THE RELIGIOUS LIFE

Lebanon Valley College was founded as a Christian college and continues to be dedicated to its faith. All students are invited and urged to participate in some phase of religious activity.

The Chapel-Convocation Program

A series of twenty-four programs is held each semester from which each student selects a minimum of twelve to fulfill attendance requirements. These programs include chapel services and convocation programs that are held on Tuesday mornings, as well as cultural events selected by the Chapel-Convocation Committee. This committee, with equal representation from administration, faculty, and students, will announce the total chapel-convocation program at the beginning of each semester.

Rationale of Chapel-Convocation Policy

The aims and objectives of Lebanon Valley College as they relate to the chapel-convocation policy and program have been duly published and constantly remind us that this institution was chartered to promote the highest human possibilities. The goals of our chapel-convocation policy and program derive from (1) our conception of the distinctive nature of the liberal arts and (2) the character of the academic community we would consciously shape.

Every aspect of educational activity reflects qualitative concerns or a scale of values. The liberal arts inevitably raise fundamental questions which require honest regard for ultimate values and personal commitments. To insure responsible learning and human concern it is necessary to recognize the value-laden nature of all knowledge. Indeed, the liberal arts are not so much courses of study as they are human attributes or personal qualities which enhance the possibility for rational discrimination, uncoerced decision, and responsible commitment. Chapel services and convocation programs are considered therefore not only an opportunity to focus honest criticism upon our qualitative concerns and scale of values, but they are offered as an integrating experience for the development of the whole person. Thus, we believe an authentic liberal arts experience will engender a sense of mystery, reverence, adoration, and celebration of the Highest. Such an experience can be most profitably exercised and creatively structured in communal worship and convocation programs.

Second, we believe a liberal arts college is a community of learning responsibly committed to humanistic values. But human values are not meaningfully experienced in abstraction or in isolation. Man is truly human only in community and therefore man can be correctly understood only when seen in relation to God and fellow man. As an institution we consciously attempt to shape this community with reference to the values

of Jesus Christ which we confess to be our highest norm of truth and goodness; in Him we see authentic humanity as God's intention for all men. This orientation is not in any way an exclusion or bemoaning of non-Christians; rather, such a confession positively requires a good will and sincere openness to all persons. When a college seeks community at its highest and deepest levels through corporate learning and worship it does so for the same reason it provides a library, gymnasium, theatre, or laboratory, namely, opportunity for the highest human development. Of course it is fatuous to assume that every opportunity offered in college will prove to be an occasion for an enriching experience for every student; but that fact does not excuse the college from the obligation of providing opportunities for experiences considered most essential to the realization of man's highest potential.

In summary, a liberal arts institution may engage in a sort of quasi-education and will fail to serve the whole person if it defaults in its confrontation with qualitative concerns, deflects from commitment to ennobling values, or denies the need for corporate celebration of life's highest good. Granted our conception of the nature of the liberal arts and the particular kind of community we seek to be, provision for corporate worship and convocation programs is integral to our total reason for being a liberal arts community committed to a definite value-orientation, i.e. Christian.

Sunday Services

The United Methodist Church and the other churches of the community extend a warm welcome to all college students who wish to attend Sunday worship.

There are seven churches of different denominations in Annville itself. Other parishes of major religious groups not found in Annville are located within a five-mile radius of the college.

PROJECT

PROJECT is the all-campus organization which coordinates the activities of the various denominational religious groups on campus. It also provides programs and activities to fulfill the spiritual needs of the students and promotes the spirit of brotherhood in the college community. Throughout the year the organization sponsors a Big Sister-Little Sister, Big Brother-Little Brother program, and all-campus retreats for fun, fellowship, and relaxation. PROJECT also provides special seasonal services, opportunities for weekend work camps, presentations by guest speakers, films, dramas, and other types of programs. All students are welcome to assist in the planning and to participate in these activities.

Denominational Organizations

It is possible for the different denominations and faiths to organize their students into clubs or other type organizations. Each of these groups in turn elects one of its members to the Executive Board of PROJECT.

Religious Emphasis Day

This is one of the outstanding religious events of the school year. Notable speakers are invited to share their experiences with the student body through the chapel-convocation programs and personal interviews. Other features usually included in the activities of the day are a music program by a student group, and a movie or drama.

The Balmer Showers Lectureship

This annual lectureship was established and endowed by the late Bishop Emeritus J. Balmer Showers, '07, of the Evangelical United Brethren Church. Under the stipulations of the endowment, the lectures are delivered by distinguished scholars of recognized leadership in the areas of Christian faith and theology, biblical archaeology and interpretation, and Christian ethics of the Christian ministry.

Religion and Life Lectures

The purpose of the Religion and Life Lectures is to deepen the student's understanding of some of the problems of life and the religious resources that are available to meet such problems. Currently, the Religion and Life Lectures and the Balmer Showers Lectures are coordinated into a series of three offerings at various times during the year.

Delta Tau Chi

Delta Tau Chi is an organization composed primarily of students who have decided to devote full-time service to church vocations. Membership is open, however, to all students who wish to participate in its activities and subscribe to its purpose. The group holds regularly scheduled meetings and daily meditations, sends deputations to churches, conducts programs at various hospitals and homes, and enters into other community projects.

CAMPUS ORGANIZATIONS

Social Organizations

Five organizations endeavor to enrich the social program of the college by sponsoring social activities on the campus and in the community, and by broadening the experience of its members through group action.

Delta Lambda Sigma
Kappa Lambda Nu
Kappa Lambda Sigma

Knights of the Valley
Phi Lambda Sigma

Recognition Groups

Students who have achieved scholastic distinction in their academic work or in certain areas are eligible for membership in honorary scholastic societies.

Phi Alpha Epsilon
Beta Beta Beta

Pi Gamma Mu
Psi Chi

Honorary and Service Organizations

Six organizations exist to bring recognition to deserving music students and participants in dramatic activities or to function as service organizations on the campus.

Alpha Phi Omega
Alpha Psi Omega
Gamma Sigma Sigma

Phi Mu Alpha
Sigma Alpha Iota
White Hats

Publications

Practical experience in management, writing, and editorial work is available to students through membership on the staff of the college yearbook.

The Quittapahilla

Departmental Clubs

Many departmental clubs provide opportunities for students to participate in supplemental department activities. At regular meetings reports on appropriate topics are presented and discussed. Other activities sponsored by the departmental clubs include lectures by specialists in the club's particular field of interest, educational films, and field trips.

Chemistry: American Chemical Society Affiliate
Economics: Investment Club, Business and Economics Club
Education: Childhood Education Club, Student P.S.E.A.
English: Green Blotter Club
Mathematics: Industrial Mathematics Society Affiliate

Modern Languages: French Club, German Club, Spanish Club, International Club
Physics: Physics Club, Student Section of the American Institute of Physics
Psychology: Psi Chi
Sociology: Sociology Club

Special Interest Groups

Art Club
Bridge Club
Chess Club

Photography Club
Ski Club
Jazz Band

Dramatics and Music

An opportunity to develop dramatic and musical talents under qualified leadership is offered to the students of Lebanon Valley College by the following organizations.

Chapel Choir
College Chorus
Concert Choir
Guild Student Group
(American Guild of Organists)

Symphonic Band
Symphony Orchestra
Wig and Buckle Club
Wind Ensemble

CULTURAL OPPORTUNITIES

Lebanon Valley College offers cultural programs in the form of the Great Artists Series, concerts by students, faculty members, and musical organizations in the department of music, and lectures sponsored by the various departments of the college. In addition, the neighboring communities of Harrisburg, Hershey, and Lebanon offer concerts, lectures, and other cultural activities throughout the year.

STUDENT GOVERNMENT

Ultimate responsibility for activities on the college campus rests with the faculty and the administration. However, the faculty and the administration have delegated powers and responsibilities to the student governing bodies so that, to a large extent, students govern themselves. The college encourages initiative and self-government as a part of the democratic training offered.

The representative organizations described below were established to function in areas of student government. They are privileged to conduct the affairs of the student body of Lebanon Valley College under their separate responsibilities so as to guide and promote the affairs of the students in accordance with local, state, and federal laws and general institutional rules.

Student Council

The Student Council seeks to foster understanding and cooperation among the students, faculty and administration of Lebanon Valley College. It is the elected group that acts as the central clearing house for all recommendations and grievances, outside the area of responsibility of the Student Senate, which emanate from the student body. The Student Council also coordinates student activities and provides for the financing of those activities. It is composed of eighteen members.

Student Senate

The Student Senate, composed of twelve elected members, is the student disciplinary body. In addition to rendering decisions concerning student justice and assigning punishments for rule violations, it has the responsibility of establishing social rules and regulations in accordance with the general rules of the college. One of the key concepts that underlies student government is that all students are encouraged to assume responsibility for the enforcement of all rules that are under the jurisdiction of the Student Senate. These rules and other information about student government are found in the *L Book* which is distributed to all students at the start of the school year.

Student Government Executive Committee

The highest authority in matters of student government at Lebanon Valley College is the Executive Committee. This group, composed of four students, two administrators, two faculty members, and the president of the college, who serves as chairman, has authority to make major

policy changes upon recommendation by the Student Senate or Student Council. It acts on matters or appeals referred to it by students, faculty members, administrators, the Student Senate, or the Student Council.

Institutional Rules

1. There shall be no dichotomy between rules for men and rules for women and there shall be equality in all aspects except security measures for women to be determined by the women.
2. Senior students and students twenty-one years of age and older are given preference in applying for permission to live off campus in the event the college is unable to furnish housing, provided preference is also given to students with such qualifications of age and class standing who are not on academic or social probation.
3. The possession and/or consumption of alcoholic beverages by any one on any property owned by Lebanon Valley College is prohibited.
4. Any interference with the educational or administrative processes of the institution is forbidden.
5. Persons of the opposite sex may visit in an individual's dormitory room only within the limitations as stated in the *L Book*.
6. Gambling is forbidden on the campus.
7. Smoking is prohibited in all college buildings except in residents' rooms and where receptacles are provided by the college.
8. Pets shall not be kept in the dormitories unless they are approved by the office of the dean of students.
9. All firearms are prohibited on campus.
10. Pledging and initiation into any organization may not include any physical abuse.

ATHLETICS AND RECREATION

Lebanon Valley College maintains a full program of intramural and intercollegiate athletic activities. Intramural leagues and tournaments are conducted in the various sports for men and women.

The college participates in nine intercollegiate sports for men (baseball, basketball, cross-country, football, golf, lacrosse, soccer, track, wrestling) and three for women (basketball, hockey and lacrosse). Tennis is offered for men and women.

Lebanon Valley College is a member of the following national and regional athletic associations: National Collegiate Athletic Association, Middle Atlantic States Collegiate Athletic Conference, Eastern College Athletic Conference, the Central Pennsylvania Field Hockey Association, and the Penn-Mar Conference for women.

Aims and Objectives of Intercollegiate Athletics

Lebanon Valley College supports its intercollegiate athletics program because it offers its students an opportunity to participate in activities that afford an outlet for competitive spirit and vitality, while further providing each student with an opportunity to develop, understand and appreciate the values of teamwork, pride, morale, dedication, physical fitness and school spirit.

COURSES OF STUDY

GENERAL INFORMATION

Course Numbering System

The first digit of the three-digit course number indicates the academic year in which the course is normally taken. Thus, a course is normally taken in the senior year if the first digit is 4, in the junior year if it is 3, in the sophomore year if it is 2, and in the freshman year if it is 1. (A first digit of 1 may also indicate that the course may be taken by freshmen even though it is usually taken by sophomores, juniors or seniors.) A first digit of 5 is employed for courses in private music instruction and independent study courses. Course numbers for music organizations have 6 as a first digit. The same number is used each time a student enrolls in a course whose first digit is 5 or 6.

A course is offered in the first semester if the third digit is an odd number, in the second semester if the third digit is an even number. A course with 0 as a third digit is a one-semester course offered in both semesters.

A comma separating the numbers of two courses with a common title indicates that the first course (offered in the first semester) is a prerequisite to the second course (offered in the second semester). A slash (/) separating the numbers of two courses with a common title indicates that the first course is *not* a prerequisite for the second course.

A course is offered every year if an academic year is not indicated.

Course Credit

Semester hours of credit, class hours per week, and laboratory hours per week are indicated by three numbers at the end of the line containing the course number and title. For example, "4:3:4" for Biology 201 means four semester hours of credit, three classroom hours per week, and four laboratory hours per week.

ART

Assistant Professor Iskowitz; Adjunct Professor Wise

110. Introduction to Art.

3:3:0. Either semester.

Students are introduced to various visual forms which are analyzed in an attempt to understand the nature of art through structure, the characteristics of media, and content. The importance of shaping individual perception is stressed in order to show how the observer plays an active role in his appreciation of a work of art. In the lectures, problems using old and new techniques are explained as well as the various media of the visual arts.

140. Studio Drawing and Painting. **3:4:0. Either semester.**

Problems are offered which provide maximum opportunity for the development of the creative capacity of the individual. An exploration of the inherent qualities of various media, techniques, and tools is undertaken through active involvement in studio. Introduction to printmaking, especially etching and woodcutting, is offered. The staff reserves the right to select one example of each student's work for its permanent collection.

Prerequisite: Art 110.

201. Art History I, Pre-history through the Middle Ages. **3:3:0. First semester.**

Representative examples in painting, sculpture, and architecture of the major cultures of successive historic periods are considered. Stress is given to the interaction of factors influencing the various forms of visual expressions. Lectures, discussions, and visual aids are employed to encourage individual research in the area of developing interest.

Prerequisite: Art 110.

202. Art History II, Renaissance to Twentieth Century. **3:3:0. Second semester.**

Study of the major forms of the visual arts representative of the Renaissance and succeeding centuries as expressed both by the individual and major schools. These viewed in terms of degree of reflection of the social, ideological, and economic foci of the period. Lecture, discussion, visual aids, supplementary assignments.

Prerequisite: Art 110.

401. Art in the Elementary School. **3:3:0. First semester.**

Survey of theories of art education and of programs of creative process activities adaptive to the various levels of maturation at the elementary level. Studio experience employing a variety of media and techniques is offered to give experience and understanding to the problems involved. Practical knowledge of process, sources of supply, approaches to display, and trends in evaluation of process are presented through lecture, discussion, demonstration, visual aids, supplementary reading.

BIOLOGY

Associate Professor Wolf, Chairman; Assistant Professors Argot, Gring, Henninger, Verhoek, Williams, and Wolfe

The work outlined in the following courses in biology is intended to develop an appreciation of man's relation to his universe, to acquaint students with those fundamental concepts necessary for the proper interpretation of the phenomena manifested by the living things with which they are surrounded, and to lay a foundation for specialization in professional courses in biology.

The courses are designed to prepare students for the work in professional schools, schools for medical technologists, hospital schools for training of nurses, for graduate work in colleges and universities, for teaching the biological sciences in high schools, and for assistantships in university and experiment station laboratories in the departments of agriculture and other government agencies.

Major: Biology 111, 112, 201, 302 or 307, 411 or 412; one course each in the general areas of physiology, cellular and subcellular biology, and morphology; and four additional hours in biology; two years of chemistry; Physics 103, 104 or 111, 112; and Math 161.

DEPARTMENTAL HONORS

The departmental honors program in biology is open to students of junior and senior status who have demonstrated superior scholastic ability in formal courses as well as the potential to complete successfully an original independent research project. A candidate for departmental honors will be assigned to a faculty member who will direct his research problem. Two weeks prior to the close of the second semester of his senior year, the candidate will submit a thesis based on his laboratory investigations and defend it before an examining committee chosen by the research sponsor. Following successful completion of the defense, the candidate's record will be reviewed by the examining committee, whereupon a decision will be made concerning a recommendation to the dean of the college that the candidate graduate with departmental honors.

101/102. Introduction to Biology I, II. 3:2:2 per semester.

These courses, designed for the *non-science major*, place emphasis on the mastery of certain biological principles which are inherent in living material. These principles are then applied to specific organisms with special stress placed on the study of human biology.

The laboratory includes exercises in anatomy, physiology, embryology, genetics, and ecology.

111/112. General Biology I, II.* 4:3:4 per semester.

An attempt is made to familiarize the student with some of the basic concepts of the physical sciences necessary for the understanding of modern biology. Basic biological principles are stressed as related to the major subdivisions of the biological sciences.

201. Genetics. 4:3:4. First semester.

The central theme of this course is the mastery of the universal properties of the mechanism of heredity. The laboratory stresses the demonstration of the key concepts of heredity utilizing both a classical and a molecular approach.

Prerequisites: Biology 111 and one year of chemistry.

202. Animal Physiology. 4:3:4. Second semester.

A study of the principles of vertebrate body function. Emphasis is placed upon the mechanisms by which cells and organs perform their functions and the interaction of the various organs in maintaining total body function.

Prerequisites: Biology 101/102 or 111/112.

302. Survey of the Plant Kingdom. 4:2:4. Second semester.

The diversity and differentiation of plants and the relationships between them will be stressed. Field and laboratory work will familiarize the student with the morphology of lower plants and with the identification and ecology of gymnosperms and angiosperms on campus and in the local flora.

Prerequisites: Biology 111/112 or permission of the instructor.

304. Developmental Biology. 4:2:4. Second semester.

The study of basic descriptive phenomena in the development of typical invertebrate and vertebrate embryos will be extended into consideration of modern embryological problems.

* Unless otherwise noted, Biology 111/112 are prerequisites for all biology courses beyond 112.

305. Vertebrate Histology and Microtechnique. 4:2:4. First semester.

Microscopic anatomy of vertebrate tissues illustrating basic tissue similarities and specialization in relation to function. The laboratory work includes the preparation of slides utilizing routine histological and histochemical techniques.

306. Microbiology. 4:2:4. Second semester.

A basic study of the morphology, physiology, and biochemistry of representative microorganisms.

307. Plant Physiology. 4:2:4. First semester.

The functioning of plants and plant systems with emphasis on vascular plants. Processes will be studied at the biophysical, biochemical, cellular and organismal levels. Structural background at all levels will be included.

Prerequisite: One semester of organic chemistry or permission of the instructor.

308. Comparative Chordate Anatomy. 4:2:4. Second semester.

The anatomy of the chordates is studied from a comparative viewpoint with particular attention given to the correlation of structure to living conditions. Laboratory work involves dissection and demonstration of representative chordates.

401. Cell Physiology. 4:2:4. First semester.

A molecular approach to the study of the organization and function of the cell.

For senior or junior majors who have completed at least two years of chemistry, or by permission of the instructor.

402. Invertebrate Zoology. 4:2:4. Second semester.

Through the use of a systemic approach, the morphology and physiology of representatives of most of the invertebrate phyla are studied. This approach centers around the following areas: movement, metabolism, information and control, reproduction, and association between animals.

403. Ecology. 4:2:4. First semester.

The fundamental concepts of ecology are examined with emphasis placed on the interaction between organisms and their biological and physical environment in selected ecosystems—freshwater, marine, and terrestrial. Field trips will be taken to selected areas. Laboratory work will be conducted on problems associated with various types of ecosystems.

Prerequisites: Biology 112 or permission of the instructor.

411/412. Biology Seminar I, II. 1:1:0 per semester.

Reading, discussions, and reports on special topics in biology.

**451/452. Special Problems I, II. 1:0:3—3:0:9 per semester.
(Maximum of 9 hours credit.)**

Designed for those students who have had most of the courses required for their major but who may have a special need for experience in fields not listed in the course offerings of the department. Students interested in a course in marine biology should elect Biology 451/452 in their senior year.

Prerequisite: Permission of staff.

**500. Independent Study. 1:0:3—3:0:9 per semester.
(Maximum of 9 hours credit.)**

Limited to students majoring in biology who have had ample courses in the department and whose records indicate that they can be encouraged to take part in research or can work independently on research problems in which they have a special interest. Biology 500 may lead to Departmental Honors for qualified students. See page 45 for information on the Departmental Honors Program.

Prerequisite: Permission of staff.

CHEMISTRY

Professor Neidig, Chairman; Professor Lockwood; Associate Professor Spencer; Assistant Professors Bailey, Bell, and Moe

The aims of the department are: (1) to provide students majoring in chemistry rigorous training in the principles and applications of modern chemistry; (2) to provide students interested in the teaching profession an opportunity to become acquainted with the teaching of science; and (3) to offer students interested in advanced study or in industrial employment professional training in chemistry.

Major: Chemistry 111, 112, 213, 214, 216, 311, 312, 314, 315, 316, 319, 320 and 4 hours of 500; *Math* 161, 162.

B.S. in Chemistry (certified by the American Chemical Society): *Chemistry* 111, 112, 213, 214, 216, 311, 312, 314, 315, 316, 319, 320, 411, 412, 413, 414 and 4 hours of 500; *Math* 161, 162.

For outline of program leading to the degree of B.S. in Chemistry, see pages 95-96.

DEPARTMENTAL HONORS

Juniors and seniors may participate in the departmental honors program if they have demonstrated a high scholastic ability and proficiency in both experimental and theoretical chemistry. To be recommended for departmental honors, a student is required: (1) to submit a thesis based on extensive laboratory investigation of an original problem; and (2) to defend the thesis before an appropriate examining committee.

111, 112. Principles of Chemistry I, II. 4:3:3 per semester.

A systematic study of the fundamental principles and concepts of chemistry.

213. Introductory Organic Chemistry. 4:3:4. First semester.

An introduction to the structure, nomenclature, and properties of the major classes of organic compounds.

Prerequisite: Chemistry 112.

214. Organic Chemistry. 3:3:0. Second semester.

A study of the preparation, properties, and uses of the aliphatic and aromatic compounds with emphasis on the principles and reaction mechanisms describing their behavior.

Prerequisite: Chemistry 213.

Corequisite: Chemistry 216.

216. Laboratory Investigations III. 1:0:4 or 2:0:8. Second semester.

Investigations of methods of synthesis and analysis of organic compounds including some physical-organic studies.

Prerequisite: Chemistry 213.

Corequisite: Chemistry 214.

311, 312. Physical Chemistry I, II. 3:3:0 per semester.

A course in the physical theories of matter and their applications to systems of variable composition.

Prerequisites: Chemistry 214 and Mathematics 162.

- 314. Instrumental Analysis.** **3:3:0. Second semester.**
 A consideration of the use of instrumental analytical methods including spectrophotometric, electroanalytical, coulometry, and polarography.
 Prerequisite: Chemistry 311 and 319.
 Corequisite: Chemistry 312.
- 315, 316. Laboratory Investigations I, II.** **1:0:4 per semester.**
 Use of instrumental techniques for investigating chemical systems.
 Prerequisite: Chemistry 214.
 Corequisites: Chemistry 311, 312.
- 319. Chemical Equilibria.** **4:3:4. First semester.**
 An investigation of chemical systems involving a study of reaction kinetics and equilibria, emphasizing the reaction of ionic substances and using modern analytical methods.
 Prerequisite: Chemistry 214.
- 320. Laboratory Investigations IV.** **1:0:4. Either semester.**
 Physical-chemical investigations of chemical systems.
 Corequisite: Chemistry 311 or 312.
- 411, 412. Advanced Inorganic Chemistry I, II.** **3:3:0 per semester.**
 An advanced course applying theoretical principles to the understanding of the descriptive chemistry of the elements.
 Prerequisites: Chemistry 312.
- 413. Advanced Analytical Chemistry.** **3:3:0. First semester.**
 A study of advanced topics in analytical chemistry.
 Prerequisites: Chemistry 312 and Chemistry 314.
- 414. Advanced Organic Chemistry.** **3:3:0. Second semester.**
 A consideration of the structure of organic compounds and the mechanisms of homogeneous organic reactions.
 Prerequisites: Chemistry 214, Chemistry 216, and Chemistry 312.
- 421, 422. Biochemistry I, II.** **3:3:0 per semester.**
 A course in the physical and organic aspects of living systems.
 Prerequisites: Chemistry 214, and Chemistry 216.
- 425. Qualitative Organic Analysis.** **2:0:8. First semester.**
 Presentation of the principles and methods of organic analysis.
 Prerequisite: Chemistry 214, and Chemistry 216.
- 426. Advanced Physical Chemistry.** **3:3:0. Second semester.**
 A presentation of advanced topics in chemistry from such areas as quantum mechanics, thermodynamics, and kinetics.
 Prerequisite: Chemistry 312.
- 427. Clinical Chemistry.** **3:3:0. First semester.**
 A study of the chemical properties, pathological significance, and experimental determinations of clinically important metabolites.
 Prerequisites: Chemistry 213, 214, 216, 312, 314, and 316.
 Corequisite: Chemistry 421.
- 430. Laboratory Investigations V.** **1:0:4. Either semester.**
 Investigations of the properties of proteins, nucleic acids, carbohydrates, and lipids.
 Prerequisites: Chemistry 214, and Chemistry 216.
- 431, 432. Clinical Chemistry Seminar I, II.** **1:1:0 per semester.**
 A discussion of topics relevant to the applications of chemistry in a clinical laboratory.
 Prerequisite or corequisite: Chemistry 427.

440. Laboratory Investigations VI.

4:0:16. Either semester.

Investigations of clinical chemical procedures, methodology, and instrumentation. Work to be carried out in a hospital laboratory.

Prerequisite or corequisite: Chemistry 427 and approval of the departmental chairman.

500. Independent Study.

2:0:8 or 3:0:12 per semester.

(Maximum of 9 hours credit, for students enrolled in the departmental honors program.)

Intensive library and laboratory study of special interest to advanced students in the major areas of chemistry. For students preparing for secondary school teaching, the emphasis is placed on methods of teaching chemistry.

Prerequisites: Chemistry 311, 312, and the consent of the chairman of the department.

COMPUTER PROGRAMMING

Professor Mayer

110. BASIC Computer Language.

0:1:0. Either semester.

Introduction to the BASIC Language.

ECONOMICS AND BUSINESS ADMINISTRATION

Assistant Professor Buffenmyer, Chairman; Professor Tom; Assistant Professors Knight and Warner; Instructor O'Neill

The aim of Lebanon Valley College is to give its students the opportunity to procure a liberal education of the highest quality. Thus within this general objective of the college, the program of study in economics and business administration at Lebanon Valley College is designed to provide for its own major:

1. A broad and liberal education so that graduates of this department will play a more active role in our changing world of ideas and actions; and
2. A sound and integrated knowledge of the essential principles and problems of business administration, accounting, and economics.

Major: Accounting 151; Business Administration 100, 180; Economics 110, 120, 201, 221; BA 490 or EC 490; and 6 additional hours of departmental courses; Math 170.

For an outline of the suggested program in economics and business administration, see pages 96-97.

DEPARTMENTAL HONORS

The purpose of the departmental honors program is to provide opportunity for capable students to undertake advanced academic work independently under the supervision of one or more members of the department.

In order to participate in the departmental honors program, the applicant is required to:

1. demonstrate in his academic work the caliber of scholarship required to undertake extensive research projects,
2. apply for and receive permission for such participation from the departmental chairman and from the dean of the college no later than the end of the first semester of the junior year,
3. obtain departmental approval of a research project,
4. prepare a paper on the research project under the guidance of one or more staff members of the department,
5. submit the paper in March of the senior year, and
6. present and defend the paper before a faculty committee selected by the departmental chairman and the dean of the college.

On the basis of the student's performance in this program, the departmental chairman and the dean of the college will determine whether or not the student will be graduated with departmental honors.

ACCOUNTING

151. Principles of Financial Accounting. 4:3:2. First semester.

A beginning course in accounting. Common business transactions are recorded in various journals and summarized in general and subsidiary ledgers. The effects of these transactions are reported in classified financial statements.

152. Principles of Managerial Accounting. 4:3:2. Second semester.

Emphasis is placed on the accumulation and analysis of financial data for management purposes.

Prerequisite: Accounting 151.

251. Intermediate Accounting I. 3:3:0. First semester.

An advanced course in accounting principles stressing statement presentation and valuation problems in presenting assets, liabilities, and stockholder's equity on the statements.

Prerequisite: Accounting 152.

252. Intermediate Accounting II. 3:3:0. Second semester.

Emphasis is placed on the analysis of financial statements, effects of error on statements, preparation of funds flow statements, and price level adjustments.

Prerequisite: Accounting 251.

351. Advanced Accounting. 3:3:0. First semester. Offered 1976-1977.

Includes a study of partnerships, installment sales, consignment sales, home branch office relationships, business combinations, special problems of consolidations, foreign subsidiaries and branches, and fiduciary accounting.

Prerequisite: Accounting 252.

451. Advanced Cost and Managerial Accounting. 3:3:0. Second semester.

Emphasis is placed on costing for planning and control, including cost-volume-profit analysis, budgeting, capital budgeting, inventory control, standard costing, and the concept of relevant costs.

Prerequisites: Accounting 152 and Economics 201.

452. Income Tax Accounting. 3:3:0. Second semester.

Analysis of the federal income tax law and its applications to individuals, partnerships, fiduciaries, corporations; case problems, preparation of returns.

Prerequisite: Accounting 152, or consent of instructor.

- 455. Auditing.** 3:3:0. First semester. Offered 1977-1978.
Involves a study of professional ethics and legal responsibilities of public accountants, generally accepted accounting principles, and auditing procedures.
Prerequisite: Accounting 252.

BUSINESS ADMINISTRATION

- 100. Introduction to Business.** 3:3:0. Second semester.
An orientation to the nature and environment of business, its structure, organization, functions and opportunities. Provides an integrated framework for further study in accounting, finance, marketing, and management.
- 180. Principles of Management.** 3:3:0. Either semester.
A study of the process of utilizing and coordinating all available resources in order to achieve the objectives of a business, governmental, educational, social, or religious organization. Includes discussions and cases on decision-making, planning, organizing, staffing, motivation, leadership, control, and communication.
- 361. Corporation Finance.** 3:3:0. First semester.
A study of financial management covering analysis of asset, liability and capital relationships and operations; management of current assets, working capital, cash, liquid assets, receivables, inventory; capital planning and budgeting; capital structure and dividend policy; short and intermediate term financing; long term financing, external and internal; mergers and acquisitions; multinational operations; and corporate failures and liquidation.
Prerequisite: Accounting 152.
- 362. Investments.** 3:3:0. Second semester.
Development and role of investment and its relation to other economic, legal, and social institutions. Includes discussion on investment principles, machinery, policy, and management; types of investment; and the development of portfolios for individuals and institutions.
Prerequisite: Business Administration 361.
- 371/372. Business Law I, II.** 3:3:0 per semester.
Elementary principles of law as they relate to the field of business. Contracts, agency, employment, commercial paper, personal property, sales, security devices, insurance, partnerships, corporation, real estate, estates, bankruptcy, and government regulations are discussed.
- 382. Marketing.** 3:3:0. Second semester.
A study of the marketing system within an economy in terms of an efficient use of resources and the distribution from producers to consumers according to the objectives of the society; performance of business activities to direct the flow of goods and services to satisfy customer needs. Includes market research, product development, packaging, distribution, promotional activities, sales management, and price policy. To bridge the gap between the understanding and the application of marketing principles, students are required to prepare and discuss a number of cases pertaining to some specific areas of marketing.
Prerequisites: Economics 201 and Business Administration 180.
- 390. Internship.** 3-9 hours credit. Either semester.
Field experience in a business, government or other organization in some area of economics, business administration, or accounting. Ordinarily, a few juniors will be chosen for the available internships by the department faculty in open competition.
- 490. Seminar and Special Problems.** 3:3:0. Either semester.
(Maximum of 9 hours credit.)
Reading, discussion, and research in business administration or accounting under the direction and supervision of the departmental staff.
Prerequisite: Business Administration 180, 361 or Accounting 351.

500. Independent Study.**1-3 hours credit. Either semester.**

(Maximum of 9 hours credit.)

A course designed for students in the departmental honors program and other qualified students who wish to undertake independent study in a specific area of business administration or accounting.

ECONOMICS

Economics 110 and 120 are prerequisites for all courses of a higher number in this section.

110. Principles of Economics I.**3:3:0. Either semester.**

An introductory study in economic principles and the American economy with emphasis on the elementary concepts of national income, price level, business fluctuations, banking activities, money supply, and economic growth.

120. Principles of Economics II.**3:3:0. Either semester.**

An introductory study in economic principles and the American economy with emphasis on the elementary concepts of consumption function, production function, product pricing, factor pricing, resource allocation, labor economics, public finance, and international economics.

130. Economics of Public Issues.**3:3:0. Either semester. (Not offered 1976-1977)**

A survey and economic analysis of public issues.

201. Microeconomic Analysis.**3:3:0. First semester.**

Economic decision-making of firms and resource allocation of an economy. A core course studying tools of analysis for students in economics, business, accounting, and related areas or disciplines.

202. Macroeconomic Analysis.**3:3:0. Second semester.**

Theoretical and empirical study of national income and business cycles.

221. Quantitative Methods.**3:3:0. First semester.**

Development and application of mathematical concepts and statistical methods to the analysis of theory, and the resolution of problems, in economics and business administration.

Prerequisite: Mathematics 170.

301. Labor Economics and Industrial Relations.**3:3:0. First semester. Offered 1977-1978.**

Theoretical analysis of labor market functioning, including impact of unionism, government policy, demographic trends, etc.; human capital theory; measurement of the labor force and data sources; history of the American labor movement; U.S. legislation affecting industrial relations; collective bargaining process and the system of industrial jurisprudence.

Prerequisite: Economics 201 or permission of the instructor.

311. Money and Banking.**3:3:0. Second semester. Offered 1976-1977.**

Nature and functions of money and credit. Development and role of commercial banking and central banking. Structure and functions of the Federal Reserve System. Monetary and banking theory, policy, and practice. Influence on prices, level of income and employment, and economic stability and progress.

322. Public Finance.**3:3:0. Second semester. Offered 1976-1977.**

Revenues and expenditures and economic functioning of the federal, state, and local governments; principles of taxation—shifting, incidence, and burden; influence on incentives, income distribution, and resource allocation; economic and social aspects of public spending; budgetary control and debt management; fiscal policy and economic stability.

332. International Economics.**3:3:0. Second semester. Offered 1977-1978.**

A study of theories and empirical analysis of international trade; capital movement; mechanism for attaining equilibrium; economic policies such as tariff, quota,

monetary standards and exchange rate, state trading, cartel, and other international economic agreements.

401. History of Economic Thought. 3:3:0. First semester. Offered 1976-1977.

The evolution of economic thought through the principal schools from mercantilism to the present. Attention will be given to the analysis of the various theories of value, wages, interest, rent, profit, price level, business cycles, and employment, and to the influences of earlier economic ideas upon current thinking and policy-making.

411. Economic Growth and Development. 3:3:0. Second semester. Offered 1977-1978.

Analysis of classical and modern theories and models of economic growth; study of theory and implications of alternative development policies.

Prerequisite: Economics 221.

490. Seminar and Special Problems. 3:3:0. Either semester.
(Maximum of 9 hours credit.)

Reading, discussion, and research in economics under the direction and supervision of the departmental staff.

Prerequisite: Economics 201 or 202.

500. Independent Study. 1-3 hours credit. Either semester.
(Maximum of 9 hours credit.)

A course designed for students in the departmental honors program and other qualified students who wish to undertake independent study in a specific area of economics.

EDUCATION

Professor Ebersole, Chairman; Associate Professor Herr; Assistant Professors Albrecht, Jacques, and Petrofes; Adjunct Assistant Professor Knight; Instructor Rogers

The aim of the department of education is to acquaint students with the art of teaching and to develop in each prospective teacher a full realization of his responsibilities in this profession.

For a statement of requirements for those planning to enter the teaching profession, see pages 97 and 101-103.

ELEMENTARY EDUCATION

Major: Elementary Education 220, 270, 332, 341, 344, 361/362, 440, 444; Art 401; Education 342; Geography 111; Psychology 321.

DEPARTMENTAL HONORS

The departmental honors program in elementary education permits the capable student to increase the depth of his understanding in an area of special interest and the general scope of his knowledge of elementary education. It is planned as an integral part of the student's major program rather than work superimposed upon it.

A student majoring in elementary education may participate in the departmental honors program when he completes the freshman-sophomore college honors program or when he demonstrates in his academic work the caliber of scholarship required to undertake an extensive research project. He must also have achieved a 3.3 grade-point average in departmental courses and a 3.0 grade-point average in all college courses. Application is made in writing to the chairman of the depart-

ment not later than the end of the first semester of the junior year. Approval of the application must be given by the dean of the college upon recommendation by the department staff.

A maximum of nine credit hours may be earned in this program. These hours will be distributed over the junior and senior years with a minimum of one and a maximum of three hours to be taken in one semester. This must include participation in the Senior Seminar, Elementary Education 444, which is required of all students majoring in elementary education. The student will investigate an area of special interest beginning with the study of the literature and culminating in the design and execution of an approved experimental or theoretical research project. He will submit to the departmental chairman periodic progress reports and any other indication of performance that may be required by the department. The project should be completed by March of the senior year, at which time the student will report and defend the findings of the project in a manner to be determined by the departmental staff.

Graduation with departmental honors in elementary education will depend on the quality of performance in the research project, the maintenance of the grade-point averages required for admission to the program, success in the comprehensive student-teaching program, and the final approval of the departmental staff and the dean of the college.

EDUCATION COURSES

for both Elementary and Secondary Education

110. Social Foundations of Education. 3:3:0. Either semester.

A study is made of the social, historical and philosophical foundations of education correlated with a survey of the principles and theories of noted educational leaders. Emphasis is placed on the influence of these leaders and their followers have had on school and society.

331. Educational Measurements. 3:3:0. First semester.

A study of the principles of validity and reliability, appraisal and construction of test items and consideration of the uses of test results.

Recommended elective in elementary and secondary fields.

Prerequisite: Psychology 110.

342. Reading Improvement. 3:3:0. Second semester.

An advanced course in reading giving special attention to diagnosis, readiness, correction, and remediation in reading. Attention will be focused on current research findings. Instruments and guidelines for effective diagnostic teaching will be examined and evaluated.

Open only to junior or senior students enrolled in the elementary and secondary programs.

346. Educational Technology and Instructional Media. 3:3:0. Second semester.

The course examines some of the psychological bases of technological teaching devices and media, and includes the study and appraisal of various kinds of media and equipment. Applications and uses are explored. Instruction and experience in the planning and production of media as well as practice in the setting up and operation of certain pieces of technological teaching equipment are also offered.

Field trips are taken to functioning public school instructional materials centers and some discussion is devoted to how to establish and operate an instructional media center.

- 423. An Introduction to Guidance.** **3:3:0. First semester.**
 An overview of guidance in the public schools including the history, philosophy, and development of programs. Procedures and instruments to be employed by the classroom teacher; creation of conditions for mental health; relation of guidance to other phases of instruction.
 Prerequisite: Education 110.
- 442. The Education of the Exceptional Child.** **3:3:0. Second semester.**
 A general view of the practices and programs for the education of exceptional children and youth. The study includes children with physical, mental, and emotional handicaps, and gifted children. Field work in special classes, child study, and the survey of curricular materials used in their education are part of the requirements.
 Prerequisites: Education 110; Psychology 110.

ELEMENTARY EDUCATION

- 220. Music in the Elementary School.** **3:3:0. Either semester.**
 Fundamentals of music, varied approaches for developing conceptual learning, movement, playing classroom instruments, introduction to Orff and Kodaly techniques, creative applications, guided listening, the child voice, materials for use in elementary schools, interest centers.
- 250. Mathematics for the Elementary Grades.** **3:3:0. Either semester.**
 An introduction to the fundamental concepts of mathematics and a survey of the new and old in mathematical disciplines as applied in the elementary school.
- 270. Children's Literature.** **3:3:0. Either semester.**
 A study of the literature of childhood, including authors and illustrators. Attention is given to children's reading interests, criteria and aids in selecting materials, a brief survey of the development of children's literature, and the art of storytelling and its place in the curriculum.
- 332. The Physical Sciences in the Elementary School.** **3:2:2. Second semester.**
 Recent developments in arithmetic and science and their applications in the classroom; curriculum planning; modern teaching methods; instructional materials; demonstrations and experiments adapted to the elementary classroom.
 Prerequisites: Elementary Education 250 and one year of a laboratory science.
- 341. Teaching of Reading.** **3:3:0. First semester.**
 A study of the problems and procedures of instruction in the development of basic reading skills. Effective reading programs, courses of study, teaching and learning materials, and research studies in this field are investigated and evaluated.
 Prerequisite: Elementary Education 270.
- 344. Health and Safety Education.** **3:3:0. Second semester.**
 The course includes a study of basic health and safety practices and procedures as applied to the elementary school, a program of physical education for elementary school children, an American Red Cross-approved program of first aid, and an evaluation of sources and use of materials.
 Prerequisites: Education 110; Psychology 220.
- 361/362. Communications and Group Processes in the Elementary School, I, II.** **3:2:2 per semester.**
 A course dealing with fundamentals for language growth in the areas of oral and written expression, correct usage, spelling, and handwriting. The development of basic concepts related to effective citizenship in a democracy. A variety of learning experiences and materials will be used and evaluated; especially, students will have experience in preparing an individual resource unit.

440. Student Teaching. **Twelve semester hours credit. First semester.**

Each student spends an entire semester in a classroom of an area public school under the supervision of a carefully selected cooperating teacher. Open to seniors only. A cumulative grade-point average of 2.0 during the first six semesters in college is required.

Student teaching begins with the opening of the public schools. College residence halls and dining hall are available to the student teachers.

Prerequisites: Education 110; Psychology 220; Elementary Education 270, 332, 341, and 361/362.

444. Senior Seminar. **3:3:0. Second semester.**

The semester gives immediate help with pertinent problems in student teaching. Topics related to over-all success in teaching will be thoroughly dealt with: professional ethics, classroom management, home and school relationships, community responsibilities, professional standards, and other related areas.

500. Independent Study. **1-3 hours credit. Either semester.**

(Maximum of 9 hours credit.)

A course designed for the student who desires to engage in independent study whether enrolled in the departmental honors program or not.

SECONDARY EDUCATION

420. Human Growth and Development. **3:7½:0. Either semester.**

This course deals with the practical application of principles of psychology and human learning to secondary school teaching. Such topics as classroom management, inter-personal relations in the school setting, and the psychology of teaching are discussed and studied.

Required of all seniors in secondary education.

Prerequisite: Education 110.

430. Practicum and Methods. **3:7½:0. Either semester.**

This course is designed to acquaint the students with some basic behaviors in the classroom that will help the prospective teacher in any subject area. A text serves as a source of information about "methods of teaching" and planning. Students work independently on the problems related to their major areas and teaching reading in their particular fields. Visits to the area schools, class presentations by teachers from these schools, and the students' video-taped presentations for their own analysis all help to prepare them for the student teaching experience.

This course is required of all seniors in secondary education, except English majors who will take English 431.

Prerequisite: Education 110.

440. Student Teaching. **Nine semester hours credit. Either semester.**

Each student spends one semester in a classroom at an area school under the supervision of a carefully selected cooperating teacher. Open to seniors only. Requirements are: (1) a cumulative grade-point average of 2.0 during the first six semesters in college, (2) the written recommendation of the major adviser, (3) the approval of the director of secondary student teaching, and (4) the approval of the dean of the college.

Prerequisites: Education 110, 420; Education 430 or English 431.

ENGLISH

Professor Ford, Chairman; Professor Faber; Professor Emeritus Struble; Associate Professors O'Donnell, Kearney, and Woods; Assistant Professors Billings, Kirby, and Markowicz

Major: In addition to the required courses in English Composition

(English 111/112), English majors will take English 221/222, 225/226, 227/228, 321/322, 331, 332, and 444. Prospective secondary school teachers will take English 218 and 334; others will take six hours of electives. English 431 replaces Education 430 as a requirement for secondary teachers.

DEPARTMENTAL HONORS

Students who are majoring in English may become candidates for departmental honors if they have a grade-point average of 3.0 in courses in English, and if they receive permission from the chairman of the department and the dean of the college, ordinarily no later than the end of the first semester of their junior year.

The specific program for each student accepted for the departmental honors program will be worked out by that student in consultation with the chairman of the department.

INTERN PROGRAM

A senior who has been accepted for departmental honors and who looks forward to a career in college teaching may, upon recommendation of the chairman of the department and appointment by the dean of the college, become an intern in English, to render such assistance in the duties of the department of English as will in some measure help to prepare him for a professional career in this field. Ordinarily only one intern will be appointed in any one academic year.

111/112. English Composition I, II. 3:3:0 per semester.

The first semester examines the principle of composition; supplemented by student papers. The second semester examines the various genres of literature.

211/212. Word Study I, II. 1:1:0 per semester.

This course has a twofold purpose: (1) to give the student some insight into linguistic processes, particularly as they pertain to the growth of the English vocabulary; and (2) to increase the range of the student's vocabulary, in order that he may have greater mastery over his native tongue. Problems of pronunciation and spelling go hand in hand with vocabulary building.

218. Oral Communication. 3:3:0. Second semester.

This course is designed to establish basic concepts, understandings, and attitudes concerning the nature and importance of oral communication and to provide experience in speaking and in competent criticism of these activities.

221/222. American Literature I, II. 3:3:0 per semester.

First semester: a survey of American literature from the beginnings to the Civil War.

Second semester: a survey of American literature from the Civil War to the present day.

223. Creative Writing. 3:3:0. First semester.

The writing of poetry and the writing of fiction in alternate years.

225/226. Survey of English Literature I, II. 3:3:0 per semester.

A study of English literature from the beginnings to our own time, viewed in perspective against the background of English life and thought.

Prerequisites: English 111/112.

227/228. World Literature I, II. 3:3:0 per semester.

This course has four principal aims: (1) to familiarize students with some of those masterpieces of Western world literature which are a part of the common heritage of every cultivated mind; (2) to acquaint students with the conventions, techniques, and presuppositions of various types of literature, so that they may be able to deal intelligently with these types when they meet them elsewhere; (3) to provide students with genuinely aesthetic experiences, in the hope that reading and the appreciation of literature will continue to enrich their spirits throughout their lives; and (4) to pass on to them some sense of the underlying values of our cultural system.

229. Contemporary Literature. 3:3:0. First semester.

A study of selected prose and poetry produced in America and England since World War I.

321/322. Shakespeare I, II. 3:3:0 per semester.

A survey of English drama from its beginnings to and including Shakespeare: (a) a study of Shakespeare's history plays and their place in the Elizabethan world, and an analysis of early Shakespearean comedy; (b) a study of Shakespeare's major tragedies, the problem comedies, and the late romantic comedies.

Prerequisites: English 225/226 or 227/228 or consent of the instructor.

331. History of the English Language. 3:3:0. First semester.

Historical study of English sounds, grammatical forms, and vocabulary; introduction to structural linguistics; standards of correctness and current usage.

Prerequisites: English 225/226 or 227/228 or consent of the instructor.

332. Chaucer. 3:3:0. Second semester.

Intended to give the student a reasonable familiarity with Chaucer; to provide a detailed picture of medieval life, culture, and thought; and to develop skill in the reading of Middle English.

Prerequisite: English 331.

334. Modern Grammars. 3:3:0. Second semester.

A review of traditional grammar and an introduction to recent concepts in grammar resulting from developments in structural linguistics.

Prerequisite: English 331.

335. Seventeenth Century Literature. 3:3:0. First semester. Offered 1975-1976.

A study of seventeenth century prose and poetry within the context of seventeenth century thought. Authors from the late Elizabethans up to and including Milton are studied.

336. Poetry of the Romantic Movement. 3:3:0. Second semester.

A study of the principal poets of the early nineteenth century: Wordsworth, Coleridge, Byron, Shelley, and Keats.

Prerequisites: English 225/226 or 227/228 or consent of the instructor.

337. The Novel. 3:3:0. First semester. Offered 1975-1976.

A study of the development of the novel in England from Richardson to Joyce.

338. Contemporary Drama. 3:3:0. Second semester.

A survey-workshop of Continental, British, and American drama from Ibsen to the present.

Prerequisites: English 111/112.

339. History of the Theater. 3:3:0. First semester.

A selection of Western and some Oriental dramas from Aeschylus to Ibsen presented historically, with attention to theater modes and techniques.

Prerequisites: English 111/112 or consent of the instructor.

341. Eighteenth Century Literature. 3:3:0. First semester. Offered 1976-1977.

A survey of the principal English authors from Dryden to Blake.

- 343. Literature of the Victorian Period.** **3:3:0. First semester.**
 Survey of the nineteenth century as seen through the literature and other arts produced from 1830 to 1915.
 Prerequisites: English 225/226 or 227/228 or consent of the instructor.
- 344. Theater Workshop.** **3:3:0. Second semester.**
 The elements of theater art oriented toward stage presentation, with classroom practice in production of scenes and whole plays.
 Prerequisite: English 339 or consent of the instructor.
- 431. The Teaching of English in Secondary Schools.** **3:3:0. First semester.**
 Concerned primarily with the role of the English teacher in the secondary schools. Attention may be given to the teaching of composition, mechanics, speech, and literary forms. Sessions on recent research in the field of English, resource materials, mass media, and teaching techniques will be included.
- 440. Special Problems.** **3:3:0. Either semester.**
 Offered according to interest of students and staff. This course will rotate among faculty members, the content of the course to be determined by the instructor with the advice of the department and consent of the chairman and the dean of the college.
 Prerequisite: consent of the instructor.
- 444. Seminar in English.** **3:3:0. Second semester.**
 This capstone course for English majors varies in content depending on the interests of the instructor.
- 500. Independent Study.** **1-3 hours credit. Either semester.**
(Maximum of 9 hours credit.)
 For the student who desires to engage in a project of independent work whether enrolled in the departmental honors program or not.
 Prerequisite: consent of the instructor.

FOREIGN LANGUAGES

Associate Professor Cooper, Acting Chairman; Professor Piel; Professor Damus; Assistant Professor Cantrell, Albrecht, Markowicz, Martin, McNerney, and Nowicki; Adjunct Instructors Garman and Saylor

The study of modern foreign languages has a two-fold aim. The first is to develop fluency in the skills—speaking, oral comprehension, reading and writing—which will enable the student to communicate effectively. The second is to provide a knowledge and appreciation of the literature, civilization and cultural heritage of the people whose language is studied.

Recognizing the importance of foreign language study to international understanding and world peace and the value of language literacy within the framework of liberal education, the department prepares the language major for a career in many crucial and challenging fields: teaching, diplomatic and government service, foreign trade, business and industry.

Since knowledge of a foreign language alone is often insufficient for many of these careers, the language major should, where appropriate, combine knowledge of foreign languages with work in other disciplines in the Humanities and Social Sciences.

Major: A student may elect either a major in one language or a departmental major, which requires two languages. The major in one language requires 24 hours above the elementary level in that language; the departmental major requires the same plus at least 12 hours above the elementary level in another language. A major in one language with certification to teach requires 2 additional hours. In all cases the general college requirement of completing a foreign language at the intermediate level must be fulfilled in still another language.

In French, German, and Spanish, at least one advanced course is offered each semester. It is hoped to increase the number and variety of the advanced courses offered. All courses are taught in the language studied (audio-lingual method) with the exception of Greek, Latin, and Scientific German.

The department strongly recommends that all language majors study abroad in the junior year in the country of their major language.

DEPARTMENTAL HONORS

Students who are majoring in foreign languages may become candidates for departmental honors if they have a grade-point average of 3.0 in departmental courses, and if they receive permission from the departmental staff and the dean of the college, ordinarily no later than the end of the first semester of their junior year.

Honors work will involve the selection of a topic for investigation under the guidance of the department adviser, independent reading and study, frequent conferences with the adviser, preparation of a paper to be submitted by March 15 of the senior year, satisfactory defense of the paper before a committee composed of the departmental staff, the dean of the college, and any other faculty members who may be invited to participate, and, finally, an oral examination in the language of major concentration. If these requirements are satisfied, the student will be graduated with honors in his major language.

FOREIGN LANGUAGES

315H/316H. Contemporary European Literature I, II. 3:3:0 per semester.

Reading, in translation, of selected works by Hesse, Sartre, Camus, Brecht, Kazantzakis, Solzhenitsyn, and others. Designed to familiarize students with important authors and trends in contemporary European literature.

Prerequisite: junior or senior standing.

French

101, 102. Elementary French I, II. 3:3:0 per semester.

A beginning course in French; audio-active technique.

111, 112. Intermediate French I, II. 3:3:0 per semester.

A continuation of French 102 with further practice in conversation, dictation, and in reading and writing. Attention is given to the cultural and historical background of the literature that is read.

Prerequisite: French 102 or two years of secondary school French.

- 115, 116. Introduction to French Literature I, II.** 3:3:0 per semester.
 A general language review with intensive practice in the four basic language skills through a study of selected literary works in their cultural and historic contexts.
 Prerequisite: four years of secondary school language or three years for specially qualified students; or French 112.
- 215. French Culture.** 3:3:0. First semester.
 A study of modern France with special attention to those qualities and characteristics which are uniquely French. Intended both to provide a useful background for the study of French literature and to prepare students to spend the junior year in France. Taught entirely in French.
 Prerequisite: four years of secondary school language or three years for specially qualified students or French 112.
- 221. French Literature of the Middle Ages.** 3:3:0. First semester. Offered 1978-1979.
 A study of the masterpieces of the Medieval French Literature in the context of the social and intellectual climate in which they were produced.
 Prerequisite: French 116 or equivalent.
- 222. French Literature of the Renaissance.** 3:3:0. Second semester. Offered 1978-1979.
 A study of the major works of the French Renaissance as a literary reflection of the tremendous vitality and progress achieved in all sectors of society.
 Prerequisite: French 116 or equivalent.
- 331. French Literature of the Age of Louis XIV.** 3:3:0. First semester. Offered 1976-1977.
 A study of the major authors of this apogee of French civilization, and how the particular social structure and institutions of the time influenced these authors.
 Prerequisite: French 116 or equivalent.
- 332. French Literature of the Enlightenment.** 3:3:0. Second semester. Offered 1976-1977.
 A study of the main literary and philosophical currents, with particular attention to their influence on the French and American Revolutions.
 Prerequisite: French 116 or equivalent.
- 441. The Modern Novel in France.** 3:3:0. First Semester. Offered 1977-1978.
 A study of the modern French novel.
 Prerequisite: French 116 or equivalent.
- 442. Modern Drama and Poetry of France** 3:3:0. Second semester. Offered 1977-1978.
 A study of modern drama and poetry of France.
 Prerequisite: French 116 or equivalent.
- 445/446. Seminar I, II.** 1-3 hours credit per semester.
 This seminar is designed to supplement and integrate the student's knowledge, to stimulate individual study and research, and to prepare him for future work in his field. The course content varies according to the needs of the group involved. For those students who are planning to teach, the seminar will provide instruction in teaching methods.
 Prerequisite: French 116 or equivalent.
- 500. Independent Study.** 1-3 hours credit. Either semester.
 (Maximum of 9 hours credit.)
 This course is designed for the student who wishes to engage in independent study whether enrolled in the departmental honors program or not.
 Prerequisite: French 116 or equivalent.

German

- 101, 102. Elementary German I, II.** 3:3:0 per semester.
 A beginning course in German; audio-active technique.

- 111, 112. Intermediate German I, II.** **3:3:0 per semester.**
 A continuation of German 102 with practice in conversation, dictation, reading and writing. Emphasis is given to the cultural and historical background of the literature that is read.
 Prerequisite: German 102 or two years of secondary school German.
- 113, 114. Scientific German I, II.** **3:3:0 per semester.**
 Practice in reading scientific and technical German with emphasis on vocabulary and the special difficulties inherent in this type of writing. General readings followed by readings in the student's major field.
- 115, 116. Introduction to German Literature I, II.** **3:3:0 per semester.**
 A general language review with intensive practice in the four basic language skills through a study of selected literary works in their cultural and historic contexts.
 Prerequisite: four years of secondary school language or three years for specially qualified students; or German 112.
- 215. German Culture.** **3:3:0. First semester.**
 A study of modern Germany with special attention to those qualities, characteristics and traditions which are uniquely German. Intended to provide a useful background for the study of German literature and as a preparation for the junior year abroad. Taught entirely in German.
 Prerequisite: Four years of secondary school language or three years for specially qualified students; or German 112.
- 221. German Literature from the Beginnings to 1750** **3:3:0. First semester. Offered 1978-1979.**
 Survey of German literature of the Medieval, Renaissance, Reformation and Baroque periods.
 Prerequisite: German 116 or equivalent.
- 222. The Classical Period.** **3:3:0 per semester. Offered 1978-1979.**
 Background of the Classical Period; detailed study of the period; readings from the works of Lessing, Goethe and Schiller.
 Prerequisite: German 116 or equivalent.
- 331/332. German Literature of the Nineteenth Century I, II.** **3:3:0 per semester. Offered 1976-1977.**
 Romanticism; Realism.
 Prerequisite: German 116 or equivalent.
- 441/442. German Literature of the Twentieth Century I, II.** **3:3:0 per semester. Offered 1977-1978.**
 A study of contemporary German literature with extensive reading of the works of the outstanding authors.
 Prerequisite: German 116 or equivalent.
- 445/446. Seminar I, II.** **1-3 credit hours per semester.**
 This seminar is designed to supplement and integrate the student's knowledge, to stimulate individual study and research, and to prepare him for future work in his field. The course content varies according to the needs of the group involved. For those students who are planning to teach, the seminar will provide instruction in teaching methods.
 Prerequisite: German 116 or equivalent.
- 500. Independent Study.** **1-3 hours credit. Either semester.**
(Maximum of 9 hours credit.)
 This course is designed for the student who wishes to engage in independent study whether enrolled in the departmental honors program or not.
 Prerequisite: German 116 or equivalent.

Greek

- 101, 102. Elementary Greek I, II.** 3:3:0 per semester. Offered 1977-1978.
An intensive course in the basic elements of ancient Greek. A study of forms and syntax, with easy prose composition.
- 211, 212. Intermediate Greek I, II** 3:3:0 per semester. Offered 1976-1977.
First semester: readings from the New Testament Gospels.
Second semester: readings from Xenophon's *Anabasis*. A review of grammar throughout the year.
Prerequisite: Greek 102.
- 321. Readings from the Book of Acts.** 3:3:0. First semester. Offered 1977-1978.
Prerequisite: Greek 212.
- 322. Readings in Hellenistic Greek.** 3:3:0. Second semester. Offered 1977-1978.
Selections from the *Septuagint*, the Greek church fathers.
Prerequisite: Greek 212.
- 431. Readings from the Epistles of Paul.** 3:3:0. First semester. Offered 1976-1977.
Prerequisite: Greek 212.
- 432. Readings from the Greek Philosophers.** 3:3:0. Second semester. Offered 1976-1977.
Prerequisite: Greek 212.

Latin

- 101. Elementary Latin I.** 3:3:0. First semester. Offered 1977-1978.
A beginning course covering the basic grammar and syntax, with some reading of ancient writers.
- 102. Elementary Latin II.** 3:3:0. Second semester. Offered 1977-1978.
A review of Latin grammar and syntax via translation of English to Latin; and, reading of Latin prose selections including Cicero.
Prerequisite: Latin 101 or equivalent.
- 111, 112. Intermediate Latin.** 3:3:0 per semester. Offered 1976-1977.
Review of forms and syntax and readings of selections from prose works such as Cicero's Essays.
Prerequisite: Latin 102, or two years of secondary school Latin.

Russian

- 101, 102. Elementary Russian I, II.** 3:3:0 per semester.
Offered only in Auxiliary Schools
An elementary course.
- 111, 112. Intermediate Russian I, II.** 3:3:0 per semester.
Offered only in Auxiliary Schools
An intermediate course in Russian with continued reading and translation, and conversation.
Prerequisite: Russian 102 or two years of secondary school Russian.

Spanish

- 101, 102. Elementary Spanish I, II.** 3:3:0 per semester.
A beginning course in Spanish; audio-active technique.
- 111, 112. Intermediate Spanish I, II.** 3:3:0 per semester.
A continuation of Spanish 102 with further practice in conversation, dictation, and in reading and writing. Attention is given to Spanish literature in its cultural and historical context.
Prerequisite: Spanish 102 or two years of secondary school Spanish.

- 115, 116. Introduction to Spanish Literature I, II.** **3:3:0 per semester.**
 A general language review with intensive practice in the four basic language skills through a study of selected literary works in their cultural and historic contexts.
 Prerequisite: four years of secondary school language or three years for specially qualified students; or Spanish 112.
- 215. Hispanic Culture.** **3:3:0. First semester.**
 A study of Hispanic culture as found in modern Spain and its reflection in American countries and in the Spanish language. Intended both as a useful background for the study of literature and as a preparation for the junior year abroad. Taught entirely in Spanish.
 Prerequisite: Four years of secondary school language or three years for specially qualified students; or Spanish 112.
- 221. Spanish literature of the Middle Ages and Early Renaissance** **3:3:0. Second semester. Offered 1977-1978.**
 Reading of the outstanding works of the period with emphasis on the beginnings of the Renaissance in Spain.
 Prerequisite: Spanish 116 or equivalent.
- 222. Spanish Literature of the Golden Age.** **3:3:0. Second semester. Offered 1977-1978.**
 A study of the major works of the Renaissance period in Spain.
 Prerequisite: Spanish 116 or equivalent.
- 331. Spanish Literature of the 18th and 19th Centuries.** **3:3:0. First semester. Offered 1978-1979.**
 Readings from the Enlightenment in Spain and a study of the major works of Romanticism and Realism.
 Prerequisite: Spanish 116 or equivalent.
- 332. Spanish Literature of the 20th Century.** **3:3:0. Second semester. Offered 1978-1979.**
 Starting with the Generation '98 and Modernism, a study of all the movements and some of the outstanding works of this century.
 Prerequisite: Spanish 116 or equivalent.
- 441. Spanish American Literature to the 20th Century.** **3:3:0. First semester. Offered 1976-1977.**
 Readings of the representative authors from the Colonial and Independence periods of Spanish American literature.
 Prerequisite: Spanish 116 or equivalent.
- 442. Spanish American Literature of the 20th Century.** **3:3:0. Second semester. Offered 1976-1977.**
 A study of important writers of the early part of the century, with emphasis on recent developments in the literature of Spanish America.
 Prerequisite: Spanish 116 or equivalent.
- 445/446. Seminar I, II.** **1-3 hours credit per semester.**
 This seminar is designed to supplement and integrate the student's knowledge, to stimulate individual study and research, and to prepare him for future work in his field. The course content varies according to the needs of the group involved. For those students who are planning to teach, the seminar will provide instruction in teaching methods.
 Prerequisite: Spanish 116 or equivalent.
- 500. Independent Study.** **1-3 hours credit. Either semester.**
 (Maximum of 9 hours credit.)
 This course is designed for the student who wishes to engage in independent study whether enrolled in the departmental honors program or not.
 Prerequisite: Spanish 116 or equivalent.

GEOGRAPHY

Professor Ebersole; Adjunct Assistant Professor Knight

111. World Geography I (Physical Geography).

3:3:0. First semester.

The first course of a two-course sequence required of elementary education majors and those who wish to be certified to teach comprehensive social studies in secondary school. The course explores the physical aspects of the earth, its place in the solar system, earth movements, time, seasons, use of globes and maps, earth's waters, land forms, climate, soil types, weather phenomena, and processes which form and change the earth's surface.

112. World Geography II (Regional Cultural Geography).

3:3:0. Second semester.

This course is recommended for elementary education majors and is required for those wishing to be certified in comprehensive social studies. The course examines various countries and regions of the world, relating the geographic features of each to the life and culture of the people. Natural resources and economy of each region are studied as well as such facts as states and capitals, population density, food supply, and ecological factors.

GEOLOGY

221/222. Structural and Historical Geology I, II.

2:2:0 per semester. (Not offered 1976-1977.)

The first semester, structural geology, acquaints the student with the forces and dynamic agencies by which the earth has been formed and has evolved into its present condition.

The second semester, historical geology, deals with the probable location of land and sea areas of each of the various geologic periods, and the development of the plants and animals which lived during periods identified by their fossil remains.

German

See Foreign Languages, page 61.

Greek

See Foreign Languages, page 63.

HISTORY AND POLITICAL SCIENCE

Professor Geffen, Chairman; Professor Fehr; Assistant Professors Joyce and Norton

The aim in the teaching of history is to acquaint the student with human behavior in the dimension of past time, in the belief that by thus extending the range of his knowledge he may also enlarge the scope of his sympathies and become more richly human.

The aim in the teaching of political science is to acquaint the student with the many-sided aspects of government, in the belief that by thus enlarging the extent of his knowledge he may expand the scope of his understanding and adopt a critical and objective attitude toward the problems of modern society.

The department also prepares students for graduate and law schools and for careers in teaching, government, and business.

HISTORY

Major: Four one-semester courses in European history as approved by the adviser; History 125 and 235/236 or History 126 and 225/226 or History 225/226 and 235/236 in American history; one course from among History 343, 344, 345, 346; and History 213 and 412. Substitutions may be approved by the chairman upon request.

DEPARTMENTAL HONORS

Students majoring in history may participate in the departmental honors program when they fulfill the following requirements: (1) demonstrate in their academic work the caliber of scholarship required to undertake an extensive research project; (2) achieve a 3.0 grade-point average in departmental courses and a 2.5 grade-point average in all college courses; and (3) apply for and receive permission for such participation from the departmental chairman and the dean of the college no later than the end of the first semester of the junior year.

The student may work for from one to three semester hours credit per semester for a maximum of nine semester hours in the departmental honors program. A member of the departmental staff will serve as his honors adviser.

During his participation in the program, the student must (1) submit to his honors adviser periodic progress reports; (2) show progress at a rate and level indicating that he will complete the program on time and at the desired level of achievement; and (3) maintain a 3.0 grade-point average in departmental courses and a 2.5 grade-point average in all college courses.

The participant must (1) obtain departmental approval of a research topic; (2) prepare an essay on the subject selected for research under the guidance of his honors adviser; (3) complete the writing of the essay by March 1 of the senior year; and (4) defend the essay in a manner to be determined by the departmental staff and the dean of the college. Upon fulfilling these requirements, the student will be recommended by the departmental chairman to the dean of the college for graduation with departmental honors.

111/112. History of Western Civilization I, II. 3:3:0 per semester.

The first semester covers the development of Western European culture in all its aspects from its Near Eastern origins to about 1715. The second semester covers its evolution during the eighteenth, nineteenth, and twentieth centuries.

125/126. Survey of United States History I, II. 3:3:0 per semester.

The first semester covers the development of the United States to 1865, the second semester from 1865 to the present. Special emphasis throughout the course is placed upon historiographical philosophy and method.

211. Greek and Roman History. 3:3:0. First semester. Offered 1977-1978.

An examination of the origins, structure, and values of Greek and Roman societies from about 1200 B.C. to about 500 A.D. The Mediterranean nature of these cultures and the historians' treatment of them are emphasized.

- 212. The Middle Ages.** 3:3:0. Second semester. Offered 1977-1978.
A study of the emergence of a European society from 500 to 1300. Emphasis is on the social and intellectual aspects of medieval life, and the historiographical record is analyzed.
- 213. Introduction to Historiography.** 3:3:0. First semester. Offered 1977-1978.
Theory and practice in the writing of history. The work of selected historians is studied and each student conducts and reports upon his own research. Training is given in research methods and in the preparation of research reports.
- 221. The Renaissance and Reformation: 1300 to 1600.** 3:3:0. First semester. Offered 1976-1977.
A study of the beginnings of the modern era, paying particular attention to the inter-relationships between its political, social, economic, and intellectual aspects.
- 222. The Old Regime: 17th and 18th Centuries.** 3:3:0. Second semester. Offered 1976-1977.
An investigation of the impact of modern science and thought upon the development of Western European culture. Particular attention is paid to the nature of European society before the era of revolutions.
- 224. British History from the Tudors to Victoria.** 3:3:0. Second semester. Offered 1977-1978.
A survey focused on the British Isles from 1485 to 1837. The cultural evolution of the English people is studied with emphasis upon the interplay of political, social, and intellectual forces. It is strongly recommended that students take History 111 to establish the setting.
- 225. American History to 1800.** 3:3:0. First semester. Offered 1976-1977.
An examination is made of all aspects of the development of the United States from its European origins to 1800. Historiographical issues, methods, and problems are stressed.
- 226. American History from 1800 to 1865.** 3:3:0. Second semester. Offered 1976-1977.
The developments of nineteenth century American history to the end of the Civil War are studied, with special attention to historiographical concerns.
- 235. The United States: 1865 to 1900.** 3:3:0. First semester. Offered 1977-1978.
The post-Civil War developments of American history during the nineteenth century are analyzed and interpreted, with emphasis upon historiography.
- 236. The United States: 1900 to the Present.** 3:3:0. Second semester. Offered 1977-1978.
The twentieth century history of the United States is studied in all its aspects. Historiographical interpretation is stressed.
- 331. The Era of Revolutions: 1789 to 1870.** 3:3:0. First semester. Offered 1977-1978.
A study of the political and economic changes in Europe from 1789 to 1870 and the total cultural impact of these changes.
- 332. Contemporary Europe: 1870 to the Present.** 3:3:0. Second semester. Offered 1977-1978.
An analysis of the nineteenth century state system, its economic and social bases, its ideology, and its evolution through world wars and technological revolutions.
- 343. History of Russia.** 3:3:0. First semester. Offered 1977-1978.
A survey of Russian history from ancient times to the present, with special attention to developments since the seventeenth century.
- 344. History of the Far East.** 3:3:0. Second semester. Offered 1977-1978.
A survey of the development of the cultural institutions of the Far East, with emphasis upon the trends since 1500.
- 345. History of Latin America.** 3:3:0. First semester. Offered 1976-1977.
A survey of the Latin American republics from their colonial beginnings to the present time.

346. Introduction to the History of African Culture.

3:3:0. Second semester. Offered 1976-1977.

A survey of African culture from the tenth-century Sudanic origins to the present day. Emphasis is on the nineteenth and twentieth centuries.

349. Select Problems in History.

3:3:0. First semester. Offered 1976-1977.

A course to provide the student with an opportunity to explore in depth a topic of special interest.

Open to junior and senior history majors and to other students by permission of the instructor.

412. Senior Seminar in History.

3:3:0. Second semester.

A review of the student's college program in history, with reading, discussion, and writing to serve the following purposes: (1) synthesis of previous course work in history; (2) relation of the academic discipline of history to other fields of knowledge; and (3) formulation and expression of a personal philosophy of history by each student.

Open only to senior departmental majors.

500. Independent Study.

1-3 hours credit. Either semester.

(Maximum of 3 semesters.)

A course designed for students who wish to undertake an independent study project in history. Open to all students, subject to the following qualifications:

Those who do not desire departmental honors are admitted by permission of the instructor who agrees to accept supervision of the student's work.

Students desiring departmental honors must meet the conditions set forth above under "Departmental Honors."

POLITICAL SCIENCE

Major: Political Science 111/112, 211, 212, 217, 311, 312, 411, 412, 413. Substitutions may be approved by the chairman upon request. Majors are also required to take History 125 and 235/236 *or* History 126 and 225/226. History 225/226 *and* 235/236 may be taken in place of the combination of either with History 125/126.

DEPARTMENTAL HONORS

Students majoring in political science may participate in the departmental honors program when they fulfill the following requirements: (1) demonstrate in their academic work the caliber of scholarship required to undertake an extensive research project; (2) achieve a 3.0 grade-point average in departmental courses and a 2.5 grade-point average in all college courses; and (3) apply for and receive permission for such participation from the departmental chairman and the dean of the college no later than the end of the first semester of the junior year.

The student may work for from one to three semester hours credit per semester for a maximum of nine semester hours in the departmental honors program. A member of the departmental staff will serve as his honors adviser.

During his participation in the program, the student must (1) submit to his honors adviser periodic progress reports; (2) show progress at a rate and level indicating that he will complete the program on time and at the desired level of achievement; and (3) maintain a 3.0 grade-point average in departmental courses and a 2.5 grade-point average in all college courses.

The participant must (1) obtain departmental approval of a research topic; (2) prepare an essay on the subject selected for research under the guidance of his honors adviser; (3) complete the writing of the essay by March 1 of the senior year; and (4) defend the essay in a manner to be determined by the departmental staff and the dean of the college. Upon fulfilling these requirements, the student will be recommended by the departmental chairman to the dean of the college for graduation with departmental honors.

111/112. American National Government I, II. 3:3:0 per semester.

The first semester concentrates on backgrounds, theories, principles, processes, and practices of American national government. Subject areas include: the nature of democracy, constitutional backgrounds, federalism and its problems, civil rights, public opinion formation, voting behavior, political parties, campaigns and elections. Special attention is given to contemporary racial and student unrest in the United States.

The second semester stresses institutional surveys and the actual work of government. The structure, functions, and processes of the main organs of national government—the Presidency, the Congress, the judiciary, and the bureaucracy—are examined. Subject areas covered include: the role of government as regulator, promoter, and manager; national defense; foreign policies; and internal development.

211. Comparative Government. 3:3:0. First semester.

A comparative study of important political systems of the world, including an introduction to the basic methodologies. The course examines both totalitarian and representative forms of government. It is strongly recommended that Political Science 111/112 be taken previously or concurrently.

212. Foreign Relations. 3:3:0. Second semester.

A survey of the external relations of American government, with emphasis on twentieth century developments. Subject areas include diplomacy, military affairs, geographic and regional problems, trade and aid, technology and underdevelopment, alliances, nuclear problems, and opposing ideologies. Consideration is given to recruitment, training, and problems of the United States foreign service and to the multiple influences shaping American foreign policies. It is strongly recommended that Political Science 111/112 be taken previously or concurrently.

217. Research Methods in Political Science. 3:3:0. First semester. Offered 1977-1978.

A course in the conduct and interpretation of research in political science. Topics covered include: formulation of a research problem, research design, techniques of scaling and measurement, data collection and analysis, and writing the research report.

Prerequisites: a major in Political Science and sophomore standing, or permission of the instructor. Mathematics 170, Elementary Statistics, is strongly recommended.

219. State and Local Government. 3:3:0. First semester. Offered 1977-1978.

This course deals with governmental institutions and political characteristics of state and local political systems. It will treat major urban problems in the context of the legal dependency of cities on state governments and constitutions. It will also examine the major intergovernmental problems in state and local relationships with the national government. It is strongly recommended that Political Science 111/112 be taken previously or concurrently.

311. Political Parties in the United States. 3:3:0. First semester. Offered 1976-1977.

A study of the origins and history of American political parties, their development, organization, leaders, conventions, platforms, and campaigns. Emphasis is given to recent changes in American political patterns. It is strongly recommended that Political Science 111/112 be taken previously or concurrently.

312. American Constitutional Law. 3:3:0. Second semester. Offered 1976-1977.

A study of the growth and development of the Constitution through the medium of judicial construction. Recent decisions illustrating its application to new conditions of the present age, and proposals for court modification are given particular attention. It is strongly recommended that Political Science 111/112 be taken previously or concurrently.

313. Foundations of American Law. 3:3:0. First semester. Offered 1976-1977.

This course provides an historical survey of the Western legal tradition from classical times through eighteenth century conceptions of the English common law as an introduction to the study of the evolution of American law. It supplements the study of American Constitutional law but does not duplicate the content of Political Science 312. It is strongly recommended for pre-law students.

Prerequisite: permission of the instructor.

314. Public Opinion. 3:3:0. Second semester. Offered 1976-1977.

An analysis of the nature and sources of contemporary public opinion, with special attention to methods of determining public opinion.

350. Select Problems in Political Science. 3:3:0. Second semester. Offered 1977-1978.

A course to provide the student with an opportunity to explore in depth a topic of special interest. It is strongly recommended that Political Science 111/112 be taken previously or concurrently.

411. Political Theory. 3:3:0. First semester. Offered 1976-1977.

A survey of the different philosophies and theories of government, ancient and modern, with special reference to political philosophy since the sixteenth century. It is strongly recommended that Political Science 111/112 be taken previously or concurrently.

412. Senior Seminar in Political Science. 3:3:0. Second semester.

Reading, discussion, and written assignments to accomplish the following purposes: (1) relation of the discipline to other fields of knowledge and (2) development and expression of an individual political philosophy by the student.

Prerequisites: a major in political science and senior standing; or permission of the instructor.

413. International Politics. 3:3:0. First semester. Offered 1977-1978.

A course in the origin, forms, dynamics, and prospects of the international political pattern, with emphasis on current developments and changing concepts in world politics. It is strongly recommended that Political Science 111/112 be taken previously or concurrently.

500. Independent Study. 1-3 hours credit. Either semester.

(Maximum of 3 semesters.)

A course designed for students who wish to undertake an independent study project in political science. Open to all students, subject to the following qualifications:

Those who do not desire departmental honors are admitted by permission of the instructor who agrees to accept supervision of the student's work.

Students desiring departmental honors must meet the conditions set forth above under "Departmental Honors."

INTERDISCIPLINARY COURSES

130. Philosophy in Literature. 3 hours credit. Either semester upon demand.

A detailed critical examination of various literary works having philosophical content. Exact topics and works to be considered will vary from year to year.

Prerequisite: Philosophy 110 or consent of the instructors.

332. Seminar in Psychology and Literature. 3 hours credit. Second semester.
A consideration of major psychological theories for use in literary interpretation.
Prerequisite: a major in psychology or English, junior or senior standing and/or permission of the staff.

334. Seminar in Philosophy and Psychology. 3 hours credit. Second semester.
Offered 1977-1978.
A detailed consideration of matters of common interest to philosophy and psychology, taught by members of both departments. Topics will vary from year to year.
Prerequisite: consent of the instructors.

LANGUAGES

See Foreign Languages, page 59.

MATHEMATICS

Professor Mayer, Chairman; Associate Professor Fleischman; Assistant Professors Burras and Hearsey

The department of mathematics has several objectives. The mathematics program prepares the student for a career in the applied sciences or in industry, or for continued study in a graduate program. In cooperation with the department of education, it offers a sound preparation for secondary school teaching. Together with the department of economics and business administration it offers a strong program in actuarial science. Last but not least, it also gives the mathematics courses needed by students majoring in other fields.

REQUIREMENTS

B.A. or B.S. with a major in Mathematics. All mathematics majors must take the following basic courses: Mathematics 111, 112, 201, 211, 264, 266, and 321. In addition the student must take at least 12 semester hours of mathematics courses numbered 300 or higher (with no more than three hours in seminar). This choice must have the approval of the department of mathematics.

B.S. with a major in Actuarial Science. All students in this program must take the following courses: Mathematics 111, 112, 201, 211, 264, 266, 321, 383, 471, 472, 481, and 482; Economics 110 and 120; and Business Administration 151 and 152. In addition, Examination 1 of the Society of Actuaries must be passed by the fall of the senior year.

RECOMMENDATIONS

Secondary school teaching. A future teacher of mathematics should take Mathematics 111, 112, 201, 211, 264, 266, 321, 322, 331 and 452, plus at least three additional hours of courses numbered 300 or higher.

Students preparing for graduate school. A student planning to attend graduate school in mathematics should take, in addition to the basic courses, the following: Mathematics 322, 363, 364, 400 and 412.

Applied mathematics. A student planning to work as a mathemati-

cian in industry should take, in addition to the basic courses, the following: Mathematics 361, 362, 363, 364, 471, and 472, as well as suitably chosen courses in the physical and/or social sciences.

Physical science. A major in a physical science should choose from Mathematics 161, 162, 261, 264, 266, 321, 322, 361, and 362.

Behavioral and social science. A major in these fields is advised to choose from Mathematics 161, 162, 170, 264, and perhaps 261.

DEPARTMENTAL HONORS

Students may participate in the departmental honors program if they have demonstrated high scholastic ability and have received permission for such participation from the departmental chairman and the dean of the college no later than the end of the first semester of the junior year.

A student may receive upon graduation, departmental honors if he has maintained a 3.0 grade-point average in mathematics and has satisfactorily completed the departmental honors program.

- 100. Basic Concepts of Mathematics.** **3:3:0. First semester.**
Outlines of some basic mathematical concepts.
- 102. Algebra and Trigonometry.** **3:3:0. Second semester.**
College algebra and trigonometry.
- 111, 112. Analysis I, II.** **5:5:0 per semester.**
A rigorous introduction to continuity, derivative, integral, and series, for mathematics and actuarial science majors.
- 161, 162. Calculus I, II.** **3:3:0 per semester.**
Introduction to derivative, integral, series, and partial derivative with emphasis on applications.
- 170. Elementary Statistics.** **3:3:0. Either semester.**
Descriptive and inferential statistics. An introductory course requiring no calculus.
- 201. Foundation of Mathematics.** **3:3:0. First semester.**
Introduction to logic, set theory, real numbers.
Prerequisite: Mathematics 112.*
- 211. Analysis III.** **3:3:0. First semester.**
A continuation of Analysis I, II.
Prerequisite: Mathematics 112.*
- 261. Calculus III.** **3:3:0. First semester.**
Vector calculus, differential equations and applications.
Prerequisite: Mathematics 162.*
- 264. Introduction to Computer Science.** **3:3:0. Second semester.**
Computer logic and languages, algorithmic procedures, computer design, applications.
Prerequisite: Mathematics 112.*
- 266. Differential Equations.** **3:3:0. Second semester.**
First and second order linear differential equations, power series solutions, special functions. Introduction to partial differential equations. Special topics.
Prerequisite: Mathematics 211 or 261.

* Prerequisites may be waived by the department.

- 321. Linear Algebra.** **3:3:0. First semester.**
 Vector spaces, transformations, matrices, systems of equations.
 Prerequisite: Mathematics 112.*
- 322. Abstract Algebra.** **3:3:0. Second semester.**
 Fundamentals of groups, rings, and fields.
 Prerequisite: Mathematics 321.*
- 331. Geometry.** **3:3:0. First semester.**
 Introduction to the axioms of geometries; Euclidean and non-Euclidean geometries.
 Prerequisite: Mathematics 112.*
- 361, 362. Methods of Applied Mathematics I, II.** **3:3:0 per semester.**
 Linear vector spaces, matrices, determinants, integral equations, partial differential equations, integral formulas.
 Prerequisite: Mathematics 266.*
- 363, 364. Classical and Numerical Analysis.** **3:3:0 per semester.**
 Taylor's theorem, Newton's method, numerical integration, power series, perturbation series, asymptotic series, Fourier series, Runge-Kutta method, finite differences, interpolation.
 Prerequisite: Mathematics 266.
- 383. Seminar in Actuarial Science.** **3:3:0. First semester.**
 Compound interest, annuities and other material for actuarial science majors.
- 400. Seminar.** **1:1:0. Either semester.**
 A seminar devoted to problem solving techniques.
- 412. Functions of a Complex Variable.** **3:3:0. Second semester.**
 Analytic functions, contour integration, Cauchy theorem, residue theory, conformal mapping.
 Prerequisite: Mathematics 211.*
- 450. Special Topics.** **3:3:0 each semester.**
 A junior/senior course whose contents are chosen according to student interest. Examples are Topology, Graph Theory, Advanced Topics, and Computer Science.
- 452. Seminar for Teachers.** **1:1:0. Second semester.**
 A senior seminar for prospective mathematics teachers. This seminar is required of those students who wish to become certified to teach mathematics.
- 466. Topics in Operations Research.** **3:3:0. Second semester. Offered 1976-1977.**
 Linear programming, transportation and assignment problems, basic game theory, introduction to other topics.
 Prerequisites: Mathematics 211 or 261, and 264.
- 471. Mathematical Probability.** **3:3:0. First semester.**
 Sample space, random variables, probability laws and distributions, limit theorems.
 Prerequisite: Mathematics 211.*
- 472. Mathematical Statistics.** **3:3:0. Second semester.**
 Generating functions, frequency distributions, decision theory, tests of hypotheses.
 Prerequisite: Mathematics 471.*
- 481, 482. Life Contingencies I, II.** **3:3:0 per semester. Offered 1977-1978.**
 Single life functions, life insurance, life annuities, multiple life functions, compound contingent functions, reversionary annuities.
- 500. Independent Study.** **1-3 hours credit. Either semester.**
(Maximum of 9 hours credit.)
 Independent work for majors enrolled in the departmental honors program and others.

* Prerequisites may be waived by the department.

METROPOLITAN SEMESTER COURSES

250. Work Internship.

6 hours credit. Either semester.

Internships in service, technical and business agencies and institutions of choice of students are supervised by staff members of the Metropolitan Semester. Three-and-one-half or four days per week.

260. Metropolitan Seminar.

3 hours credit. Either semester.

The seminar surveys the major issues in urban America, using Philadelphia as the point of reference.

280. Social Sciences Research Seminar.

3 hours credit. Either semester.

The seminar surveys the nature of social research with special emphasis on methods of collecting valid data. Students design and complete a small research study on a relevant urban problem.

290. Values Seminar.

3 hours credit. Either semester.

Students examine ethical issues and moral dilemmas which arise from personal life, work in large organizations, and the conduct of public policy.

MUSIC

Associate Professor Smith, Chairman; Professor Emeritus Bender; Professors Curfman and Getz; Associate Professors Fairlamb, Lanese, Stachow, and Thurmond; Assistant Professors Burrichter, Englebright, Lau, Morgan, Ogg, and Sweigart; Instructors Sanford and Watkins; Adjunct Assistant Professors Knisley and Toroni; Adjunct Instructors Aulenbach, Bilger, Binkley, Campbell, Checket, Dunn, Fine, Gifford, Goebel, Grove, Reed and Stambach.

The aims of the department of music are to prepare performers and teachers, to teach music historically and aesthetically as an element of liberal culture, and to offer courses that give a thorough and practical understanding of theoretical subjects.

Attendance at all faculty recitals and a portion of student recitals is compulsory.

All majors in music or music education are required to take private instruction on the campus if the department offers instruction in the individual's principal performance medium.

Participation in music organizations may be required of all majors.

One-half hour of private instruction is included in the basic tuition. For additional music fees see page 18.

MUSIC

(B.A. with a major in Music)

This program is designed for those students desiring a liberal arts context in their preparation for a career in applied music.

Special Requirements

All majors are required to take an hour lesson per week in their major performance area and are expected to perform a half recital in the junior year and a full recital in the senior year.

All majors outside of the keyboard area are required to study piano

(private or class) until the minimum requirements have been met.

For the recommended plan of study in this program see page 99.

MUSIC EDUCATION

(B.S. with a major in Music Education)

This program has been approved by the Pennsylvania Department of Education and the National Association of Schools of Music for the preparation of teachers of public school music.

A "track system" permits the student to select an area of concentration: (1) general, (2) instrumental, (3) keyboard/vocal.

The music education curriculum requires voice instruction (class or private) for a minimum of one year and piano instruction (class or private) for a minimum of two years. A competency jury must be passed successfully in each area.

For the recommended plan of study in this program see page 100.

DEPARTMENTAL HONORS

1. A candidate must have achieved a minimum grade-point average of 3.00 at the end of the sophomore year, and must maintain this minimum to remain eligible for honors status.
2. The private instructor in the candidate's major performance area must recommend the student for full recital privileges during the senior year, and will serve as adviser to the individual's departmental honors program.
3. The candidate through reading and research will produce a thesis or an essay, based on a problem or subject of his own choosing under the direct supervision of his faculty adviser. Creative work will be encouraged with reference to, or emphasis upon, his principal performance medium.
4. Honors recognition shall be dependent upon the quality of the prepared thesis or essay and the level of the candidate's recital performance, both to be reviewed by a committee of three, including the private instructor (adviser), the chairman of the department, and a third music faculty member to be designated by the chairman with the approval of the adviser.
5. In addition to any established pattern of announcing honors candidates and recipients, the printed recital program shall also indicate "in partial fulfillment of requirements for Honors in Music."
6. A maximum of 9 hours credit can be earned in departmental honors.
7. Upon the completion of the above requirements at a satisfactory level, the student will be recommended by the reviewing committee to the dean of the college for graduation with departmental honors.

I: THEORY OF MUSIC

Sight Singing

111. Sight Singing I.

1:2:0. First semester.

A beginning course in music reading with the use of syllables, incorporating the elements of melody and rhythm within the beat and its division. The following are

studied: basic beat patterns, simple and compound time, diatonic intervals, implied harmonic structure within the melodic line, the C clefs, modulations. Phrasing and the application of dynamics are stressed.

112. Sight Singing II. **1:2:0. Second semester.**

A continuation of music reading, using more difficult melodies and rhythms, the beat and its subdivision, and additional interval problems. Exercises in four clefs, employing modal melodies, remote modulation, superimposed background and meter, changing and less common time signatures.

Ear Training

113. Ear Training I. **1:2:0. First semester.**

The study of the basics of music notation essential for the writing of melodic and rhythmic dictation. Emphasis is placed upon aural recognition of intervals, scales, triads and their inversions, and simple harmonic progressions and cadences. Harmonic dictation is begun in the latter half of the course. Correlated with Sight Singing.

114. Ear Training II. **1:2:0. Second semester.**

A study of more difficult tonal problems including seventh and ninth chords, chromaticism, modulation, and modality. Emphasis is placed upon harmonic and corrective dictation. Correlated with Sight Singing.

Harmony

115. Harmony I. **2:3:0. First semester.**

A study of the rudiments of music including notation, scales, intervals, and triads; the connection of triads by harmonizing melodies and basses with fundamental triads; playing of simple cadences at the piano; analysis of phrases and periods.

116. Harmony II. **2:3:0. Second semester.**

A study of inversions of triads, seventh and ninth chords, harmonizations of melodies and figured basses; analysis and composition of the smaller forms; modulation.

215. Harmony III. **2:2:0. First semester.**

The use of dominant and diminished sevenths as embellishments of and substitutes for diatonic harmony; harmonization of melodies and figured basses; analysis of two and three-part song forms; composition in two-part song form. Playing of more advanced cadences and modulations at the piano.

315. Elementary Composition* on special announcement. **2:2:0. First semester.**

Melody analysis and writing; four-part choral writing; continuation of two and three-part song-form analysis and composition. Composition in theme and variations, fantasia, rondo, and dance forms. Study of contemporary harmonic ideas.

316. Keyboard Harmony. **2:2:0. Second semester.**

Work at the piano includes the harmonization of melodies both with four-part harmony and with various accompaniment forms; also transposition, improvisation, modulation, reading from figured bass. (Students are placed in elementary, intermediate, or advanced sections on the basis of keyboard ability.) The successful completion of a piano jury is required for admission to the course.

Additional Theory Courses

217. Basic Concepts of Structure and Style. **2:2:0. First semester.**

A course designed to develop the student's knowledge of specific musical styles resulting from the synthesis of music's constituent and expressive elements. The study is approached through listening to, discussing, and analyzing compositions representing a variety of styles and media. Other course objectives include: acquaintance with literature, comprehensive application of the basics of music theory, and development of musicianship.

* B.A. program in music.

- 224. Counterpoint.** **2:2:0. Second semester.**
Introductory work in strict counterpoint through three and four-part work in all the species.
- 226. Form and Analysis I.** **2:2:0. Second semester.**
A study of the structure of music including hymns, folk songs, two, three and five-part song forms, variations, contrapuntal forms, rondo, and sonata forms. Compositions in these forms are studied primarily for their structural content. Course includes extensive listening.
- 329. Form and Analysis II*** on special announcement. **2:2:0. First semester.**
A study through analysis and listening of fugal forms, suite, overture, complete sonata forms (evolution of the symphony), string quartet, the tone poem. Analysis of classical and contemporary works in these forms.
- 400. Arranging and Scoring for the Stage Band.** **2:2:0. Either semester.**
Study of modern harmony, modulation, style analysis, special instrumental effects as applied to modern arranging. Laboratory analysis and demonstration of sectional and ensemble voicings.
- 410. Composition, Schillinger System.** **Private teaching.**
A scientific system of music composition created by the late Joseph Schillinger, teacher of such accomplished professionals as George Gershwin and Ted Royal Dewar. The major aims of the system are to: (1) generalize underlying principles regarding the behavior of tonal phenomena; (2) classify all the available resources of our tonal system; (3) teach a comprehensive application of scientific method to all components of the tonal art, to problems of melody, rhythm, harmony, counterpoint, orchestration, and to composition itself. The system is best studied in the light of a traditional background and admission to course or private instruction is by special permission only.
- 416. Orchestration.** **2:2:0. Second semester.**
Study of instrumentation, devices, techniques, and mechanics of scoring transcriptions, arrangements and solos for orchestra and concert band; special work in scoring for mixed ensembles as they occur in public schools. Laboratory analysis and demonstration of various instrumental colors and combinations. Emphasis is placed on creative scoring.

II. METHODS AND MATERIALS

- 333. Methods and Materials, General Music: Elementary.** **3:3:0. First semester.**
A comprehensive study of general music teaching at the elementary level, including the rationale for building a music education curriculum, current emphases in music education, varied approaches for developing conceptual learning, movement, playing classroom instruments, introduction to Orff and Kodaly techniques, creative applications, guided listening, the child voice, materials, and interest centers for open classrooms.
- 334. Methods and Materials, General Music: Junior High School.** **3:3:0. Second semester.**
Materials and approaches for junior high school general music, attention to the organization and presentation of a varied program, and recent trends in teaching. Adolescent voices, creative applications, improvisation, guided listening, interest centers, units of study, and characteristics of youth.
- 335. Methods and Materials, Instrumental: Fourth, Fifth and Sixth Grades.** **2:2:0. First semester.**
A study of methods and materials used in teaching band and orchestral instruments to children in these grades, with emphasis on a sound rhythmic approach. Both individual and class techniques are studied. Musical rudiments as applied to instrumental teaching are reviewed.

* B.A. program in music.

336. **Methods and Materials, Instrumental: Junior and Senior High School.**

2:2:0. Second semester.

A study of intermediate and advanced instrumental teaching techniques; methods of organizing and directing school orchestras and bands; fundamentals of musicianship.

402. **Seminar in Advanced Instrumental Problems.**

2:2:0. Second semester.

A study of the general and specific problems which confront the director of school orchestras, bands, and instrumental classes. Problems of general interest include: organization and management, stimulating and maintaining interest; selecting beginners; scheduling rehearsals and class lessons; financing and purchasing instruments, uniforms, and other equipment; marching band formations and drills; evaluating music materials; organizing festivals, contests, and public performances.

404. **Music Education Seminar: Secondary Level.**

2:2:0. Second semester.

A study of aspects of secondary school vocal music curriculum and related course offerings. Topics with which a high school choral teacher or director of music will need to be knowledgeable are investigated with particular attention given to those problems relating to the responsibilities of the vocal music teacher. Philosophy of music education, musical theater, tests and measurements, elective courses, planning inservice events, and choral materials.

405. **Methods in Piano Pedagogy.**

2:2:0. First semester.

A study of methods of teaching piano to children and adults. The course includes the song approach method, presentation of the fundamental principles of rhythm, sight reading, tone quality, form, technique, pedaling, transposition, and the harmonization of simple melodies. Materials are examined and discussed.

412. **Electronic Music.**

1:1:1. Second semester.

An introduction to the use and function of synthesizers and their application to the electronic music field, with special attention to the education area, live performance, and integration with studio equipment.

III. STUDENT TEACHING

441. **Student Teaching.**

12 semester hours credit. First semester.

Each student spends a semester in the music department of an area public school under the supervision of cooperating teachers. Experiences are provided according to the individual student's selection of a track program, with emphasis on general, instrumental, or keyboard-vocal areas. Requirements are: (1) a cumulative grade-point average of 2.0 during the first six semesters in college, (2) ability to demonstrate proficiency in the competencies for music teachers as set forth by the Pennsylvania Department of Education, (3) approval by the music faculty.

IV. INSTRUMENTAL COURSES

Class Instruction in Band and Orchestral Instruments.

Practical courses in which students, in addition to being taught the fundamental principles underlying the playing of all band and orchestral instruments, learn to play on instruments of each group, viz., string, woodwind, brass, and percussion. Problems of class procedure in public schools are discussed; transposition of all instruments is taught. Ensemble playing is an integral part of these courses.

Brass Instruments (Trumpet [Cornet], Horn, Trombone, Baritone, Tuba)

123. **Brass I.**

1:2:0. First semester.

A study of two of the above instruments.

124. **Brass II.**

1:2:0. Second semester.

A study of the remainder of the above instruments.

Percussion Instruments (Snare Drum, Timpani, Bass Drum, etc.)

227. **Percussion I.**

½:1:0. First semester.

A study of snare drum only.

- 328. Percussion II.** **½:1:0. Second semester.**
A study of the remainder of the above instruments.

Woodwind Instruments (Clarinet, Flute, Piccolo, Oboe, Saxophone, Bassoon)

- 231. Woodwind I.** **1:2:0. First semester.**
A study of the clarinet.

- 232. Woodwind II.** **1:2:0. Second semester.**
A study of the remainder of the above instruments.

String Instruments (Violin, Viola, Cello, String Bass)

- 337. String I.** **1:2:0. First semester.**
A study of all of the above instruments.

- 338. String II.** **1:2:0. Second semester.**
A continuation of the study of all of the above instruments.

Instrumental Seminar. **½:1:0 or 1:2:0. First or second semester.**

Application of specific techniques to problems of class instruction.

420. Brass

Prerequisite: Music 124.

430. Percussion

Prerequisite: Music 327.

440. String

Prerequisite: Music 338.

450. Woodwind

Prerequisite: Music 232.

V. MUSIC ORGANIZATIONS

Opportunities for individual performance in a group experience are provided by music organizations. Membership in the organizations is open on an audition basis to all students of the college.

- 601. Symphonic Band.** **0:3:0 per semester.**

The Blue and White Marching Band of L.V.C. is noted for its half-time performances during the football season. The Symphonic Band of ninety pieces plays several concerts during the year, both on and off campus. The finest original music for band is performed, as well as arrangements of the standard repertoire. Membership in the band is dependent upon the ability of the applicant and the instrumentation of the band. Students from all departments of the college are invited to audition.

- 602. All-Girl Band.** **0:1:0 per semester.**

L.V.C. is unique in having one of the few all-girl bands in the nation. All girls in the college with ability as instrumentalists are welcome to audition. Membership depends upon proficiency and the needs of the band regarding instrumentation.

- 603. Symphony Orchestra.** **0:3:0 per semester.**

The Symphony Orchestra is an organization of symphonic proportions maintaining a high standard of performance. A professional interpretation of a wide range of standard orchestral literature is insisted upon.

- 604. Concert Choir.** **0:3:0 per semester.**

The Concert Choir is composed of approximately fifty voices, selected by audition. All phases of choral literature are studied intensively. In addition to on-campus programs and appearances on radio and television, the Concert Choir makes an annual tour.

- 605. College Chorus.** **0:1:0 per semester.**

The College Chorus provides an opportunity to study and participate in the presentation of choral literature of major composers from all periods of music history. It is open to all students who are interested in this type of musical performance and who have had some experience in singing.

- 606. Chapel Choir.** **0:1:0 per semester.**

The Chapel Choir is composed of approximately forty voices, selected by audition. The main function of this choir is to provide musical leadership in the college's chapel services. In addition, seasonal services of choral music are prepared.

607. Beginning Ensemble. **0:1:0 per semester.**

A training band and orchestra in which students play secondary instruments and become acquainted with elementary band and orchestral literature. Opportunity is given for advanced conducting students to gain experience in conducting.

608. Wind Ensemble. **0:1:0 per semester.**

The Wind Ensemble provides an opportunity for advanced players of wind and percussion instruments to play the growing repertoire of music being written for this medium. In addition, standard classical works for wind and/or percussion instruments are played. The members of this organization are chosen by audition.

Instrumental Small Ensembles. **0:1:0 per semester.**

Open to the advanced player on an audition basis.

611. String Quartet.

612. String Trio.

613. Clarinet Choir.

614. Woodwind Quintet.

615. Brass Ensemble.

616. Percussion Ensemble.

617. Saxophone Quintet.

618. Saxophone Ensemble.

VI. THE HISTORY AND APPRECIATION OF MUSIC

100. History and Appreciation of Music. **3:3:0. Either semester.**

A course for the non-music major designed to increase the individual's musical perceptiveness. Through selective, intensive listening, the student develops concepts of musical materials and techniques. The vocabulary thus gained is utilized in a survey of Western music beginning with the 20th century and progressing backwards to the Middle Ages. This course is designed primarily for the student with no previous musical background.

341/342. History and Literature of Music I, II. **3:3:0 per semester.**

A survey course of the history of Western music. Emphasis is placed on the various stylistic developments which have occurred from one era to another, on the composers who have been responsible for these developments, and the music written during these various eras illustrating these stylistic trends. For this purpose, extensive use of recordings is made a part of the course. The first semester includes the development of music up to the Baroque era, the second semester from the Baroque to the present.

351/352/353/354. Organ Seminar I, II, III, IV. **2:2:0 per semester.**

A four-semester sequence based upon the investigation and study of the following:

351: Organ Design and Registration.

352: Organ History and Literature.

(Early times through the mid-Baroque with emphasis upon French and German music.)

353: Organ History and Literature.

(An investigation of the organ literature of J. S. Bach and his contemporaries; organ literature of the nineteenth and twentieth centuries.)

354: Church Service Playing.

Required for organ students in the B.A. program in music; open to other students with the approval of the instructor.

406. Piano Seminar. **2:2:0. Second semester, on demand.**

A survey of the history of the piano including a brief review of its predecessors; a study of the literature for the instrument, with special emphasis on that available to the average student; a study of the problems encountered in the preparation of piano material, its presentation in recital, and related pedagogical problems.

Required for all piano students in the B.A. program in music; open to other students with the approval of the instructor.

462. Music Literature Seminar.

3:3:0. Second semester.

A study of music literature to extend the scope of students' familiarity with major instrumental works and to promote further investigation. Designed especially for the B.A. Student in music with application of accumulated knowledge in theory, music history, and musical form. The course includes examination of various theories of aesthetics as they apply to music, a survey of orchestral literature, study of twentieth-century compositions, and student pursuit of a project of each individual's own interest.

VII. CONDUCTING

246. Principles of Conducting.

2:2:0. Second semester.

Principles of conducting and the technique of the baton are presented. Each student conducts vocal and instrumental ensembles made up of the class personnel.

345. Instrumental Conducting.

2:2:0. First semester.

Emphasis on practical work with instrumental groups. Rehearsal techniques are applied through individual experience.

347. Choral Conducting.

2:2:0. First semester.

Further refinement of the conductor's basic technique applied to the choral idiom. Laboratory situations will provide for training in areas of rehearsal procedures, materials, and special problems of choral conducting: diction, tonal development and style.

VIII. APPLIED MUSIC INSTRUCTION

132. Diction for Singers.

1:2:0. Second semester.

An introduction to the pronunciation of singer's English, German, French, Italian, and Latin, utilizing the International Phonetic Alphabet. Required for all voice students in the B.A. program in music and for all keyboard-vocal track students in the B.S. program in music education; open to other students with the approval of the instructor.

520. Class Instruction (Voice and Piano).

1:1:0 per semester.

530. Individual Instruction.

1:½:0 per semester.

(Voice, Piano, Organ, Orchestral and Band Instruments.)

Piano study (private or class) is required for a minimum of two years.

540. Individual Instruction.

2:1:0 per semester.

(Voice, Piano, Organ, Orchestral and Band Instruments.)

A charge is made for the second half-hour of instruction.

IX. DEPARTMENTAL HONORS AND INDEPENDENT STUDY

500. Independent Study.

1-3 hours credit. Either semester.

(Maximum of 9 hours credit.)

A course designed for the student who desires to engage in independent study, either with or without departmental honors. (See information on page 75 for Departmental Honors.)

THE STUDENT RECITALS

The student recitals are of inestimable value to all students in acquainting them with a wide range of the best musical literature, in developing musical taste and discrimination, in affording experience in appearing before an audience, and in gaining self-reliance as well as nerve control and stage demeanor.

Students at all levels of performance appear in these student recitals.

PHILOSOPHY

Assistant Professor Thompson, Chairman; Adjunct Professor Ehrhart; Instructor Heffner

The department of philosophy serves a major purpose in the curriculum by attempting to make the student aware of the need for a critical evaluation and analysis of the ideas, beliefs, and faiths—scientific and humanistic—within the Western intellectual tradition.

Part of the rationale for the study of philosophy at the college is found in the value of its attempt to examine the history of ideas as it comes to us from the ancient Greeks. But more than this, philosophy seeks to interpret and analyze these ideas as they relate to the student's own existence and that of mankind as a whole. The study of philosophy at Lebanon Valley College takes both inspiration and justification from the maxim of Socrates that "the unexamined life is not worth living."

Major: A total of twenty-four hours, including Philosophy 120, is required of the philosophy major.

INDEPENDENT STUDY AND DEPARTMENTAL HONORS

Students who wish to do independent work in philosophy beyond the scope of courses listed in the college catalog may elect, with departmental approval, to take Independent Study, Philosophy 500, which is conducted in a tutorial fashion.

A junior or senior student may, with departmental permission, undertake to do individual study for honors by enrollment in Philosophy 500, Independent Study. This involves the writing and oral defense of a detailed research project or critical study on an approved topic. This program is open ordinarily only to departmental majors who have done well in their course work and are aiming at advanced work in philosophy; it is not, however, limited to such students. The student who successfully meets the requirements of the program shall be recommended to the dean of the college for graduation with departmental honors.

110. Problems of Philosophy.

3:3:0. Either semester.

An introduction to some of the main problems of philosophy and to the ways in which leading philosophers have dealt with them. As part of this course, students learn the critical analysis of ideas.

120. General Logic.

3:3:0. Either semester.

An introduction to the rules of clear and effective thinking. Attention is given to the logic of meaning, the logic of valid inference, and the logic of factual inquiry. Main emphasis is laid upon deductive logic, and students are introduced to the elements of symbolic logic as well as to traditional modes of analysis.

228. Ethics.

3:3:0. Second semester.

An inquiry into the central problems of ethics, with an examination of the responses of major ethical theories to those problems.

231. Philosophy of Religion.

3:3:0. First semester.

A study of the issues raised for philosophy by contemporary religious and theological thought. A critical examination of such problems as faith and reason; the meaning of revelation, symbolism, and language; the arguments for the existence of God; faith and history; religion and culture.

- 323. Greek Philosophy.** 3:3:0. First semester. Offered 1976-1977.
A study of the evolution of philosophy from its origin in the speculations of the pre-Socratic nature philosophers to the work of Hellenistic philosophers of the fourth century, with emphasis on the thought of Plato and Aristotle.
Prerequisite: Philosophy 110 or consent of the instructor.
- 326. Medieval Philosophy.** 3:3:0. Second semester. Offered 1976-1977.
The history of philosophy is traced from the decline of the Hellenistic Age to the Renaissance, with emphasis on the development and subsequent criticism of the systematic elaborations of the schoolmen of the late Middle Ages.
Prerequisite: Philosophy 110 or consent of the instructor.
- 333. Modern Philosophy.** 3:3:0. First semester. Offered 1977-1978.
This course follows the development of philosophic thought in the writings of the principal thinkers from the Renaissance to the beginning of the nineteenth century, with emphasis on the work of Hume and Kant.
Prerequisite: Philosophy 110 or consent of the instructor.
- 336. Twentieth Century Philosophy.** 3:3:0. Second semester. Offered 1977-1978.
An examination of the foremost American, British, and Continental philosophers from 1900 to the present.
Prerequisite: Philosophy 110 or consent of the instructor.
- 340. Aesthetics.** 3:3:0. Offered either semester on sufficient demand only.
A study of the nature and basis of criticism of works of art.
Prerequisite: Philosophy 110 or consent of the instructor.
- 341. Metaphysics.** 3:3:0. First semester. Offered 1976-1977.
A detailed consideration of the theory of reality, as interpreted by representative philosophers from the pre-Socratics to the British and American linguistic analysts, including the twentieth-century phenomenologists.
Prerequisite: Philosophy 110 or consent of the instructor.
- 346. Epistemology.** 3:3:0. Second semester. Offered 1976-1977.
A critical and analytical study of the chief questions involved in "knowing," as formulated by representative thinkers from the time of Plato to the present.
Prerequisite: Philosophy 110 or consent of the instructor.
- 365. Philosophy of Science.** 3:3:0. First semester. Offered 1977-1978.
An examination of the philosophical foundations of the physical sciences. Topics include: experimental method, structure and confirmation of theories, inductive logic, causality, philosophy of space and time. One of these topics is selected for special emphasis. Students are strongly urged to have taken a course in physics or chemistry.
Prerequisite: Philosophy 110 or consent of the instructor.
- 442. Seminar.** 3 hours credit. Second semester.
Discussion of selected problems of philosophy.
Open to upperclassmen only, with consent of the instructor.
- 500. Independent Study.** 1-3 hours credit. Either semester.
See information on page 82. (Maximum of 9 hours credit.)
Prerequisite: consent of the instructor.

PHYSICAL EDUCATION

Assistant Professor Petrofes, Chairman; Assistant Professors Reed and Yuhas; Instructors Corvell, and Satalin.

The aims of this department are (1) to encourage attitudes and habits of good total health; (2) to develop the student's physical capacities; (3) to provide activities which will enrich leisure throughout one's life.

Four (4) semesters of physical education are required.

In addition to the family physician's report, it is strongly recommended that all entering students also undergo a thorough visual examination.

Students are required to wear the regulation gymnasium outfit, which may be purchased at the college store.

110. Physical Education (Men) (Women)

0:2:0 per semester.

(Men) The physical education activities include: physical fitness and conditioning, touch football, basketball, softball, volleyball, badminton, golf, handball, squash, wrestling, tennis, swimming, soccer, lacrosse, paddleball, gymnastics and weight training.

(Women) The physical education activities include: soccer, softball, swimming, golf, archery, volleyball, badminton, tennis, gymnastics, field hockey, squash, basketball, and paddleball.

PHYSICS

Professor Rhodes, Chairman; Professor Emeritus Grimm; Associate Professor O'Donnell; Assistant Professor Thompson

The department of physics attempts to develop in the student an increased understanding of the basic laws of nature as they relate to our physical environment, and to indicate the possible extent, as well as the limitations, of our knowledge of the physical world.

The course Physics 100 is designed especially for the non-science major who may wish only a one-semester introduction to the role of physics and its impact on society. The introductory course Physics 103, 104 is intended for students who desire a one-year survey course in physics without the calculus prerequisite. The sequence of courses 111, 112 and 211, 212 provides suitable training for students who anticipate additional work in the physical sciences, whether it be in physics, chemistry, engineering, applied mathematics, or some other area for which a strong background in physics is essential. Laboratory work is an integral part of all the physics courses at the freshman and sophomore level; laboratory work at the junior and senior levels is provided in Physics 327/328 and Physics 500. These are courses designed to acquaint the student with the experimental techniques and the measuring instruments appropriate to the various areas of investigation, and to give experience in the interpretation and communication of experimental results. Laboratory facilities include a neutron howitzer, beta and gamma detection equipment with a multi-channel pulse height analyzer, lasers, a 50 kV X-ray diffractometer, and a harmonic wave analyzer.

The department prepares students for graduate study, for research and development work in governmental and industrial laboratories, and for teaching physics in the secondary schools. It also provides background courses in physics appropriate for work in various basic and applied areas of the physical sciences, such as astrophysics, biophysics, space science, and computer technology.

Major: Math 161, 162, 261, 266, or 111, 112, 211, 266; Physics

111, 112, 211, 311, 312, 321, 322, and six additional semester hours, of which at least two shall be in experimental physics.

INDEPENDENT STUDY AND DEPARTMENTAL HONORS

Independent Study, Physics 500, is available to all physics majors with the approval of the departmental chairman. Experimental facilities are available in the department for independent investigations in X-ray diffraction, neutron reactions, radioactivity, Mössbauer effect, gamma ray spectroscopy, and wave analysis. Theoretical problems may be chosen from classical physics, statistical mechanics, or quantum mechanics.

Physics majors who have demonstrated high academic ability may, with the permission of the departmental chairman and the dean of the college, participate in the departmental honors program in physics. Application for admission to this program should be made before the end of the junior year. A student admitted to the program enrolls in Physics 500 and works on an experimental or theoretical research project, normally for a period of a year, with departmental supervision. Upon the satisfactory completion of an approved project and the formal presentation of a research paper before an examining committee, the student will be recommended to the dean of the college for graduation with departmental honors.

100. Physics and Its Impact.

4:3:2. Either semester.

A course designed to acquaint the student, especially the non-science major, with some of the important concepts of physics, both classical and modern, and with the scientific method, its nature and its limitations. The role of physics in the history of thought and its relationships to other disciplines and to society and government are considered. The weekly two-hour laboratory period provides experience in the acquisition, representation, and analysis of experimental data, and demonstration of the physical phenomena with which the course deals. No mathematics or science prerequisite.

103, 104. General College Physics I, II.

4:3:3 per semester.

An introduction to the fundamental concepts and laws of the various branches of physics, including mechanics, heat, sound, electricity, magnetism, optics, and atomic and nuclear structure, with laboratory work in each area.

110. The Physics of Music.

3:3:0. Second semester.

This course, for students with an interest in music, comprises a study of wave motion, the analysis and synthesis of waves, resonance, physical characteristics of music sounds, musical instruments, the reproduction and amplification of sound, and the acoustical properties of rooms. Whenever feasible, laboratory exercises and physical demonstrations will supplement or replace classroom instruction. A working knowledge of algebra and trigonometry is required.

111, 112. Principles of Physics I, II.

4:3:3 per semester.

An introductory course in classical physics, designed for students who desire a more rigorous mathematical approach to college physics than is given in Physics 103, 104. Calculus is used throughout. The first semester is devoted to mechanics and heat, and the second semester to electricity, magnetism, and optics, with laboratory work in each area. This course should be followed by Physics 211.

Prerequisite or corequisite: Mathematics 111 or 161.

211. Atomic and Nuclear Physics.

4:3:3. First semester.

An introduction to modern physics, including the foundation of atomic physics,

the quantum theory of radiation, the atomic nucleus, radioactivity, and nuclear reactions, with laboratory work in each area.

Prerequisite: Physics 104 or 112.

212. Introduction to Electronics.

4:3:3. Second semester.

The physics of electrons and electronic devices, including vacuum tubes, diodes, transistors, power supplies, amplifiers, oscillators, switching circuits, and servomechanisms, with laboratory work in each area.

Prerequisite: Physics 104 or 112.

311, 312. Analytical Mechanics I, II.

3:3:0 per semester.

A rigorous study of classical mechanics, including the motion of a single particle, the motion of a system of particles, and the motion of a rigid body. Damped and forced harmonic motion, the central force problem, the Euler description of rigid body motion, and the Lagrange generalization of Newtonian mechanics are among the topics treated.

Prerequisites: Physics 111 and Mathematics 266.

321, 322. Electricity and Magnetism I, II.

3:3:0 per semester.

A rigorous study of the basic phenomena of electromagnetism, together with the application of fundamental principles to the solving of problems. The electric and magnetic properties of matter, direct current circuits, alternating current circuits, the Maxwell field equations, and the propagation of electromagnetic waves are among the topics treated.

Prerequisites: Physics 112 and Mathematics 266.

327/328. Experimental Physics I, II.

1:0:3 per semester.

Experimental work selected from the areas of mechanics, A.C. and D.C. electrical measurements, optics, atomic physics, or nuclear physics, with emphasis on experimental design, measuring techniques, and analysis of data.

Prerequisite: Physics 211.

421, 422. Modern Physics I, II.

3:3:0 per semester.

A rigorous study of selected topics in modern physics, utilizing the methods of quantum mechanics. The Schrödinger equation is solved for such systems as potential barriers, potential wells, the linear oscillator, the rigid rotator, and the hydrogen atom. Perturbation techniques and the operator formalism of quantum mechanics are introduced where appropriate.

Prerequisites: Physics 211 and Mathematics 266.

430. The Teaching of Physics in Secondary Schools.

1:1:0. Either semester.

A course designed to acquaint the student with some of the special methods, programs, and problems in the teaching of physics in secondary schools.

Required for secondary certification in physics.

480. Special Topics in Physics.

3:3:0 per semester.

A seminar in one or more of the following areas of physics is offered each semester, and is open, with the approval of the instructor, to juniors and seniors from any department.

(a) *Thermodynamics.* A study of the laws of thermodynamics from which the following topics are developed: thermodynamic variables, equations of state, phase transitions, specific heats, entropy, and low temperature phenomena.

(b) *Statistical Mechanics.* Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics are derived and used to discuss specific heats, paramagnetism, the properties of molecules, photons, and electrons, and fluctuations.

(c) *Wave Theory.* A study of the theory of waves as it applies to electrodynamics, optics, and acoustics. The topics covered include propagation of wave motion, wave guides, diffraction and interference phenomena, and polarization.

(d) *Nuclear Physics.* The topics covered include properties of nuclei, nuclear

force, nuclear models, properties of alpha, beta, and gamma decay, fission, and fusion.

(e) *Solid State Physics*. The topics covered include the properties of crystals, electronic states in solids, semiconductors, and the electric and magnetic properties of solids.

500. Independent Study.

1-3 hours credit. Either semester.

(Maximum of 9 hours credit.)

An experimental or theoretical investigation in a selected area of physics under the supervision of a physics staff member. Open to all physics majors with the permission of the departmental chairman.

See information on page 85.

PSYCHOLOGY

Professor Davidson, Chairman; Professor Love; Associate Professor Lasky; Assistant Professor Carlson; Adjunct Assistant Professor Peters

The program presents psychology from its scientific and professional perspectives, and provides a means for students' psycho-social development through increased knowledge. As a behavioral science, the program is designed to contribute to students' general education, to provide a background for many human service occupations, and to prepare some for later graduate work. There is a complete program for those preparing for graduate school studies in either experimental or clinical psychology.

Many who major in psychology upon graduation are employed in agencies, hospitals, and industry. Furthermore, many of the courses provide an important background for those preparing for careers in other fields such as medicine, business and teaching.

There is a program for majors who wish to qualify for teaching psychology in high school, with Pennsylvania Teaching Certification in Social Studies upon graduation. A double major in psychology and elementary education provides not only certification to teach in elementary school, but also preparation for graduate programs in counseling and school psychology.

Major: Psychology 110, 215, 236, 343 and 443; either 235 or 444, or both; either 332 or 336, and at least two of the following: 321, 346, 431. Certain substitutions may be approved by the Department. Students preparing for graduate school are advised to include Psychology 237 or 238.

INDEPENDENT STUDY AND DEPARTMENTAL HONORS

For the capable student who wishes to take part in selecting and planning his own investigation within particular areas of psychology, a program of independent study and research for credit may replace courses. The student is assisted by a member of the faculty with whom he has individual conferences. The student's investigation is designated as Independent Study (Psychology 500), whether or not he is a candidate for departmental honors.

In order to begin a program of individual study for departmental honors, a psychology major is required to: (1) have an over-all grade-

point average of 2.5; (2) have an average of 3.0 in psychology courses; (3) show consistently high interest and initiative; and (4) obtain the approval of the departmental staff and the dean of the college.

Graduation with honors in psychology will depend on the quality of independent study, the written and oral reports, and the maintenance of the grade-point averages specified for admission to the study program.

110. General Psychology. 3:3:0. Either semester.

An introduction to the scientific study of behavior and human experience, with emphasis on biological and environmental influences upon learning, perception, motivation, and cognitive functions. Studies of the person, of development and personality, and of interpersonal relationships are reviewed.

215. Experimental Methods in Behavioral Science. 3:3:0. First semester.

A course to acquaint students with the method, design, analysis and interpretation of data in the behavioral sciences. The course will provide the student with the appreciation of the experimental study of behavior as well as correlational methods and case study methods.

Prerequisite: Psychology 110 taken previously or concurrently.

220. Educational Psychology. 3:3:0. Either semester.

An application of psychological principles to problems and issues encountered in formal education. Required for state certification in elementary and music education.

Prerequisite: Psychology 110.

235. Experimental Psychology I: Sensory and Perceptual Processes. 3:3:0. First semester.

Review of major areas of investigation of visual, auditory and other sensory systems. Psychophysical methods, and principles of sensory differentiation and field organization are included.

Prerequisite: Psychology 110.

236. Experimental Psychology II: Learning and Motivation. 3:3:0. Second semester.

Instrumental and classical conditioning techniques are compared and related to theories of human and animal learning and motivation. Basic methods in the investigation of verbal learning are also considered.

Prerequisite: Psychology 110.

237. Laboratory Investigations I: Sensory and Perceptual Processes. 1:0:3. First semester.

Experiments with human subjects, coordinated with topics in Psychology 226. Students select sensory/perceptual problems for investigation, have a part in the design of experiments, conduct trials, do statistical computation, and interpret the results.

Prerequisite: Psychology 110.

Corequisite: Psychology 226.

238. Laboratory Investigations II: Learning. 1:0:3. Second semester.

Animal learning experiments coordinated with topics in Psychology 225. Simple learning situations are demonstrated. Students conduct investigations, analyze data, and write reports.

Prerequisite: Psychology 110.

Corequisite: Psychology 225.

300. Cinematic Conceptions of Man. 3 hours credit.

Viewing films as literary works, an examination of the thematic, stylistic, and structural statements and assertions concerning man's actions and psychology that are made by *auteurs*, and involved in film genres and historical periods. Specific topics (e.g., Fellini, Antonioni, the Western, and Neo-Realism) to be selected each term, and discussions will be based upon films in a film series illustrating the topic, a series held in conjunction with the course. May be taken twice for credit.

321. Childhood and Development. 3:3:0. First semester.

A study of human growth and development with particular emphasis upon the

psychological development of the child. Theories of development and appropriate research studies are included. Opportunities will be made available for field experience with children. Required for state certification in elementary education.

Prerequisite: Psychology 110.

332. Psychological Testing and Assessment. 3:3:0. Second semester.

An introduction to basic psychometric theory, and an overview of selected personality, ability and attitude measures.

Prerequisite: Psychology 110.

336. Research Design and Statistics. 3 hours credit. Second semester.

Principles of research design and inferential statistical analysis planning and execution of studies.

Prerequisites: Psychology 110, 235, 236.

337. Organizational Psychology. 3:3:0. First semester.

The application of basic psychological principles and findings to problems of organizational behavior and psychology in industry. Topics to include: ecological psychology—man/environment relations, systems design and analysis, human factors engineering, and the evaluation of the impact of the organization on the individual.

Prerequisite: Psychology 110.

343. Personality. 3:3:0. First semester.

A study of major concepts and theories concerning human personality and of the empirical bases for these.

Prerequisites: Psychology 110; junior or senior standing, or permission of the instructor.

346. Social Psychology. 3:3:0. Second semester.

Studies of the person's social responses and attributes, of group structures and relations, of cultural norms, and of social influences on behavior.

Prerequisites: Psychology 110; junior or senior standing, or permission of the instructor.

431. Abnormal Behavior and Experience. 3 hours credit. First semester.

An introduction to the major syndromes of abnormal behavior and their dynamics, and to the psychological, sociocultural and biological conditions associated with their development.

Prerequisites: Psychology 110 and 343, or permission of the instructor.

432. Introduction to Clinical Psychology. 3 hours credit. Second semester.

Consideration of diagnostic procedures, dynamics, etiology, and treatment of behavior disorders.

Prerequisites: Psychology 110, 431; senior standing or permission of the instructor.

443. History and Theory. 3:3:0. First semester.

Philosophical issues, areas and trends of investigation, and "schools of psychology" prior to 1940.

Prerequisites: Psychology 110, 235 and 236; junior or senior standing, or permission of the instructor.

444. Physiological Psychology. 3:2:2. Second semester.

A comparative study of neuroanatomy and neurophysiology with emphasis on the human nervous system. Functional and anatomical relationships are related to problems in sensation, perception, learning, and motivation.

Prerequisites: Psychology 110; Biology 101/102 or permission of the instructor.

445/446. Research Seminar I, II. 1-3 hours credit per semester.

Each semester areas of investigation or problems will be selected for individual or group study, and students conduct reviews of the relevant literature, regularly discuss studies and theoretical issues at seminar meetings, and prepare research papers.

Prerequisites: Two semesters of psychology beyond Psychology 110, and permission of the instructor.

500. Independent Study.

3 hours credit. Either semester.

(Maximum of 9 hours credit.)

Individual investigation of a selected topic in psychology, involving either an experiment, a project in the community, or a systematic program of reading, each under the supervision of a member of the department. This includes conferences with the instructor. See information on pages 87-88.

Prerequisites: Psychology 110, two additional psychology courses, and permission of the department.

RELIGION

Professor Wethington, Chairman; Professor Troutman; Assistant Professors Byrne and Cantrell; Adjunct Associate Professor Bemederfer

The aim of this department is to provide opportunity for the academic study of the meaning of man's religious experience.

Toward this end, the department offers courses which introduce the student to the various historical and contemporary expressions of the Christian heritage as well as courses which acquaint him with the diverse religious traditions of mankind.

As pre-professional preparation, courses are provided for those who are looking toward graduate studies in the humanities, social sciences, world cultures, the Christian ministry, world missions, and other church vocations, as well as the academic teaching of religion.

Major: A total of twenty-four semester hours is required, including Religion 404. A total of six hours of New Testament (Greek 211) or Hellenistic Greek (Greek 321, 322) as well as Philosophy of Religion (Philosophy 231) may be counted toward a religion major.

DEPARTMENTAL HONORS

Students wishing to participate in the departmental honors program in the department may do so by fulfilling the following requirements: (1) achieve high academic standing in departmental courses; (2) submit a paper in connection with a course beyond the first year courses; (3) apply and receive approval for participation in departmental honors from the departmental chairman and the dean of the college by the end of the first semester of the junior year; (4) prepare an essay of 10,000 words or more under the direction of a member of the department to be submitted by March 15 of the senior year; (5) defend the essay before a faculty committee selected by the department chairman and the dean of the college.

On the basis of his performance in the essay and the oral examination, the departmental chairman and the dean of the college will determine whether or not the candidate is to receive departmental honors.

111. Introduction to Biblical Thought.

3:3:0. First semester.

An examination of some of the basic themes of Biblical religion in relation to their historical context and their contemporary implications.

112. Introduction to the Christian Faith.

3:3:0. Second semester.

A systematic inquiry into the areas of religious languages, religious knowledge, and the doctrines of God, man, Christ, and the Church.

- 120. Religion in America.** **3:3:0. Either semester.**
 A study of contemporary Judaism, Roman Catholicism, and Protestantism in the United States, including a brief historical background of each. Some attention is given to the various religious sects and cults.
 No prerequisite.
- 130. American Folk Religion.** **3:3:0. Second semester. Offered 1977-1978.**
 A study of both of the folk traditions of selected American denominations and sects, and of the theological implications of "secular" folklore. Emphasis will be placed on field-work as well as on analysis.
 Prerequisite: Religion 120 or permission of instructor.
- 140. World Religions.** **3:3:0. Either semester.**
 An examination of the rise and development of religion along with a study of the ideas, and cultic and ethical practices of the great world faiths. Special attention given to Asian religions.
 No prerequisite.
- 202. The Prophets.** **3:3:0. Second semester. Offered 1978-1979.**
 A study of the lives and writings of the Old Testament prophets, and an analysis of their contributions to Hebrew-Christian religious thought.
 Prerequisite: Religion 111.
- 206. Near East Archaeology and the Bible.** **3:3:0. Second semester. Offered 1977-1978.**
 An examination of archaeology in biblical lands, its methods, objectives, and contributions to the areas of history, culture, and religion.
 Prerequisite: Religion 111 or permission of instructor.
- 211. Life and Teachings of Jesus.** **3:3:0. First semester.**
 An intensive study of the life and message of Jesus as set forth in the Gospels.
 Prerequisite: Religion 111.
- 212. Life and Epistle of Paul.** **3:3:0. Second semester. Offered 1976-1977.**
 A study of the life, writings, and theological thought of Paul and their relationship to the practices, problems, and beliefs of the early church.
 Prerequisite: Religion 112.
- 222. Christian Ethics.** **3:3:0. Second semester.**
 A systematic analysis of the implications of the Christian faith both for personal moral decision, and for social policy in such areas as government and political life, work and the economic order. Strongly recommended for all pre-theological students.
 Prerequisite: Religion 111 or 112.
- 331. Christian Tradition and Reform.** **3:3:0. First semester.**
 A study of the major and continuing strains in the history of Christianity and the principal reform movements. Strongly recommended for all pre-theological students.
 No prerequisite.
- 332. Theological Issues in Contemporary Secular Authors.** **3:3:0. Second semester.
Offered 1976-1977.**
 Identification, analysis, and interpretation of issues of special theological import raised by thinkers representing "non-theological" disciplines.
 Prerequisite: Religion 112, or consent of instructor.
- 340. Introduction to Christian Nurture.** **3:3:0. (Not offered 1976-1977.)**
 An investigation of some of the principles and problems of religious education as they are related to higher education, the public school, the church school, and the home.
 Prerequisite: Religion 111 or 112.
- 403. Seminar in Classical Christian Thinkers.** **3:3:0. First semester. (Not offered 1976-1977.)**
 An intensive study of the thought of such classical religious thinkers as Augustine, Aquinas, Luther, and others.

Required of majors and strongly recommended for all pre-theological students; others by permission of the chairman of the department.

404. Seminar in Contemporary Religious Problems. 3:3:0. First semester.

A study of selected problems arising from recent theological efforts. Research methodology is stressed.

Required of majors and strongly recommended for all pre-theological students; others by permission of the chairman of the department.

**500. Independent Study. 1-3 hours credit. Either semester.
(Maximum of 9 hours credit.)**

For departmental honors see information on page 90.

RUSSIAN

See Foreign Languages, page 63.

SOCIAL SCIENCE

General Adviser: Professor Geffen. Upon choice of an area of concentration the student is given an adviser in that discipline.

The social sciences examine the structure of society and the behavior of human beings in group relationships within that structure. This interdisciplinary program provides an opportunity for the student to explore the basic concepts of a broad spectrum of social science disciplines—economics, history, political science, and sociology—and then to do more concentrated work in his choice of one of these subject areas.

All courses are taught by the respective departments and share the objectives of those departments. These objectives and specific course content are described in the respective departmental sections in this catalog.

The general purpose of the program is to develop the student's understanding of the nature of the social processes in which he is involved as a human being and the structure within which he lives as a member of society, in order that he may function more effectively.

The program also offers basic preparation for graduate, theological, and law schools, and for careers in business, government, social work, and teaching.

Basic Requirements: Economics 110/120, History 125/126, Political Science 111/112, Sociology 110 and any other Sociology course.

Concentration Requirements (One of the following):

Economics: Economics 490 and any other three courses in Economics.

History: History 213, 412, and any other two courses in History.

Political Science: Political Science 217, 412, and any other two courses in Political Science.

Sociology: Sociology 311, 422, and any other two courses in Sociology.

SOCIOLOGY

Associate Professor Berson, Chairman; Assistant Professor Welch

The Department of Sociology assists students in developing their understanding of the general character of human relationships and of the specific nature and processes of group life. In addition to helping prepare students for further study in graduate schools of sociology and social work, the department also provides pre-professional training for students who plan to pursue vocations in social, religious, and community service.

Major: Sociology 110, 311, 422, and 432, plus 15 additional hours in the department. Psychology 346 may be counted toward the 27 hours required for a major.

DEPARTMENTAL HONORS

The departmental honors program is an encouragement to superior students to undertake a concentrated program of directed study. The student must apply for and receive admission to the program by the conclusion of the first semester of his/her junior year. Admission to the program will be granted by the department chairperson and the dean of the college. The student must meet the following requirements: (1) complete 15 hours of sociology prior to admission into the program; (2) maintain a 3.2 grade-point average in sociology and a 3.0 grade-point average overall; (3) complete a major research or study program; (4) present and defend the results of his/her work before a faculty committee and interested departmental majors; and (5) receive final approval of departmental honors from the chairperson of the department and the dean of the college.

SOCIOLOGY

Sociology 110 is a prerequisite to all other courses in the department except Sociology 121.

110. Introduction to Sociology. 3:3:0. Either semester.

A systematic study of the major concepts, methods, and areas of sociology focusing on the nature of society, the behavior of social groups, and the impact of society on individuals.

121. Introduction to Anthropology. 3:3:0. First semester.

A general survey of the uses and methods of anthropology, focusing on the interaction of physical and cultural factors in the development of man and his behavior.

132. Minority Groups. 3:3:0. Second semester. Offered 1977-1978.

An analysis of relations within and between racial and other ethnic groups. Consideration is given to unique historical contexts, basic social processes, and emergent contemporary developments.

142. Criminology. 3:3:0. Second semester. Offered 1976-1977.

An investigation of the social phenomenon of crime, including consideration of the nature, causes, and responses to behavior which is defined as criminal or deviant.

- 211. Urbanology.** **3:3:0. First semester. Offered 1976-1977.**
An inquiry into the nature and degree of urbanization in the United States and the world, and of the impact of urban life on contemporary society.
- 221. Population.** **3:3:0. First semester. Offered 1977-1978.**
A consideration of both the quantitative and qualitative aspects of population growth in the United States and the world, with special emphasis on current trends and future projections.
- 232. Family Sociology.** **2:4:0. First seven weeks. Second semester.**
An intensive study of the family as a social institution which varies from one social-historical context to another.
- 242. Marriage Making.** **2:4:0. Second seven weeks. Second semester.**
A look at the marriage pattern, from initial dating to final dissolution, which most Lebanon Valley students can expect to encounter.
- 311. Research Methods.** **3:3:0. First semester. Offered 1977-1978.**
Students conduct a group project utilizing scientific principles to develop a research design, to collect and analyze data and to interpret and communicate findings.
Prerequisite: Sociology major, junior or senior status, or permission of department chairperson.
- 321. Sociology of Religion.** **3:3:0. First semester. Offered 1976-1977.**
An investigation of the structure and functions of religious organizations and phenomena, with particular emphasis on the varieties of religious expression in American society.
- 331. Social Welfare.** **3:3:0. First semester.**
An introduction to the nature and function of social welfare in contemporary society, stressing its history, its problems, and its prospects.
- 342. Social Work Methods.** **3:3:0. Second semester.**
An examination of the knowledge and skills required for professional social work, emphasizing the methods of social casework, social group work, community organization and social action.
Prerequisite Sociology 331.
- 352. Social Problems.** **3:3:0. Second semester.**
An in-depth investigation of selected problems of contemporary life as seen through different analytical perspectives.
- 410. Field Experience in Social Welfare.** **3-4 hours credit. Either semester.
(Maximum of 8 hours credit)**
An extension and application of knowledge through a supervised field placement experience in a public or private social service agency or program.
Prerequisite: Sociology 342.
- 422. Social Theory.** **3:3:0. Second semester.**
An intensive exploration of the major sociological theorists and movements.
Prerequisite: 12 hours in the department.
- 432. Senior Seminar.** **3:3:0. Second semester.**
A critical analysis of selected themes and issues in contemporary sociology.
Prerequisite: Sociology major, senior status, or permission of department chairperson.
- 500. Independent Study.** **1-3 hours credit. Either semester.
(Maximum of 9 hours credit.)**
Directed work in areas approved by the instructor.
Prerequisite: 18 hours in sociology, a cumulative 2.5 average, and a contract with the instructor prior to registration for the course.

SPANISH

See Foreign Languages, page 63.

SPECIAL PLANS OF STUDY

The adviser to each of these programs should be consulted for the details of the program's requirements and recommendations.

ACTUARIAL SCIENCE

Adviser: Dr. Hearsey

The actuarial science program (see page 71 for requirements) is designed to prepare students for the first four of the ten examinations required by the Society of Actuaries for admission as a Fellow. The college is a testing center for the Society of Actuaries, and each of the four examinations may be taken on campus. In addition, the choice of courses available to the actuarial science major is broad enough to qualify him as a major in mathematics.

BIOLOGY (Professional Biology, Marine Biology, Pre-Medicine, Pre-Dentistry, Pre-Veterinary Curricula)

Advisers: Dr. Wolf, Dr. Gring, Dr. Henninger, Dr. Verhoek, Dr. Williams, Dr. Wolfe

First Year

Bi 111/112, General Biology I, II
Ch 111, 112, Principles of Chem. I, II
En 111/112, English Composition, I, II
Ma 161, 162, Calculus I, II*
PE 110/110, Physical Education

Second Year

Bi electives (4 hrs. each sem.)
Ch 213, Introductory Organic Chem.
Ch 214, Organic Chemistry
Ch 216, Lab. Investigations III
For. Lang. 111, 112, Interm. Fr, Ger,
Ru. or Sp I, II
Religion, gen. req. (3 hrs. each sem.)
Soc. Sci. or Hum., dist. req. (3 hrs.
each sem.)
PE 110/110, Physical Education

Third Year

Bi elective (4 hrs. each sem.)
Phy 103, 104 or 111, 112, Gen. Coll.
Physics I. II or Prin. of Physics I. II
Soc. Sci. or Hum., dist. req. (3 hrs. 1st
sem., 6 hrs. 2nd sem.)
Electives (3-6 hrs. 1st sem.)

Fourth Year

Bi elective (4 hrs. each sem.)
Bi 411 or 412, Biology Seminar (1 hr.
either sem.)
Electives (6-7 hrs. 1st sem., 9-10 hrs.
2nd sem.)
Soc. Sci. or Hum., dist. req. (3 hrs. 1st
sem.)

* Ma 161 required; Ma 162 and 170 recommended.

CHEMISTRY

Advisers: Dr. Neidig, Dr. Lockwood, Dr. Spencer

Students entering with advanced placement in chemistry are asked to consult the advisers.

Curriculum leading to the degree of Bachelor of Science in Chemistry (part of the requirements for American Chemical Society certified degree).

First Year

Ch 111, 112, Principles of Chem. I, II
En 111/112, English Composition I, II
For. Lang. 111, 112, Interm. Fr, Ger,
Ru, or Sp I, II*
Ma 161, 162, Calculus I, II
Religion, gen. req. (3 hrs. each sem.)
PE 110/110, Physical Education

Second Year

Ch 213, Introductory Organic Chem.
Ch 214, Org. Chem.
Ch 216, Lab. Investigations III
Ma 261, Calculus III**
Phy 111, 112, Prin. of Physics I, II
Soc. Sci. or Hum. dist. req. (3 hrs. 1st
sem., 6 hrs. 2nd sem.)
PE 110/110, Physical Education

* Ger 113, 114 recommended

** Ma 262 recommended

Third Year

Ch 311, 312, Physical Chemistry I, II
Ch 314, Instrumental Analysis
Ch 315, 316, Lab. Investigations I, II
Ch 319, Chemical Equilibria
Ch 320, Lab. Investigations IV
Elective (3 hrs. 2nd sem.)
Soc. Sci. or Hum., dist. req. (6 hrs.
1st sem., 3 hrs. 2nd sem.)

Fourth Year

Ch 411, 412, Adv. Inorganic Chem. I,
II
Ch 413, Adv. Analytical Chemistry
Ch 414, Adv. Organic Chemistry
Ch 500, Independent Study (both sem.)
Electives (9 hrs. 1st sem. and 2nd sem.)

ECONOMICS AND BUSINESS ADMINISTRATION

Advisers: Dr. Buffenmyer, Mr. Knight, Mr. O'Neill, Dr. Tom, Dr. Warner.

First Year

Ac 151, Principles of Financial
Accounting
Ac 152, Principles of Managerial
Accounting
CP 110, BASIC Computer Language
BA 100 Introduction to Business
Ec 110/120, Principles of Economics I,
II
En 111/112, English Composition I, II
For. Lang 111, 112, Interm. Fr, Ger,
Ru, or Sp I, II
Ma 170, Elementary Statistics
PE 110/110, Physical Education

Second Year

Distribution req. (3-4 hrs. 1st sem., 6-7
hrs. 2nd sem.)
Ec 201, Microeconomic Analysis
BA 180, Principles of Management
Ec 221, Quantitative Methods
Ec or BA electives (6 hrs. 2nd sem.)*
Religion, gen. req. (3 hrs. each sem.)
PE 110/110, Physical Education

Third Year

Distribution req. (6-7 hrs. each sem.)
Ec or BA electives (6 hrs. each sem.)*
Electives (3 hrs. each sem.)

Fourth Year

Ec 490 or BA 490, Sem. & Special Prob.
Distribution req. 3-4 hrs. each semester
Ec or BA electives (6-9 hrs. each sem.)*
Electives (3-6 hrs. each sem.)

* Students concentrating in areas designated should schedule courses as indicated:

Economics:

Ec 301, Labor Economics and
Industrial Relations
Ec 311, Money & Banking
Ec 322, Public Finance
Ec 332, International Economics
Ec 401, History of Economic
Thought
Ec 411, Economic Growth and
Development

Business Administration:

BA 361, Corporation Finance
BA 362, Investments
BA 371, Business Law I
BA 372, Business Law II
BA 382, Marketing

Accounting:

- Ac 251/252, Intermediate Accounting I, II
- Ac 351, Advanced Accounting
- Ac 451, Advanced Cost and Managerial Accounting
- Ac 452, Income Tax Accounting
- Ac 455, Auditing

For students who are interested in receiving Pennsylvania Teaching Certification in Social Studies with a major in economics and business administration, the following courses are required:

- Ec 110/120, Prin. of Economics I, II
- Ec 201, Microeconomic Analysis
- Ec 221, Quantitative Methods

- Ec 490, Seminar & Special Problems
- Ac 151, Principles of Financial Accounting
- BA 180, Prin. of Management
- Ma 170, Elementary Statistics

With electives chosen from among:

- Ec 202, Macroeconomic Analysis
- Ec 301, Labor Economics and Industrial Relations
- Ec 311, Money & Banking
- Ec 322, Public Finance
- Ec 332, International Economics
- Ec 401, Hist. of Economic Thought
- Ec 411, Economic Growth and Development
- BA 371, Business Law I
- BA 372, Business Law II

ELEMENTARY EDUCATION

Advisers: Dr. Ebersole, Mrs. Herr

Suggested program for majors in elementary education.

First Year

- Ed 110, Social Foundations of Education (2nd sem.)
- En 111/112, English Composition I, II
- For. Lang. 111, 112, Interm. Fr, Ger, Ru, or Sp I, II
- Geo 111, World Geography I
- Nat. Sci., dist. req. (3-4 hrs. each sem.)
- Religion, gen. req. (3 hrs. each sem.)
- PE 110/110, Physical Education

Second Year

- Electives (3-6 hrs. 1st sem., 6-9 hrs. 2nd sem.)
- EE 220, Music in El. Sch. (either sem.)
- EE 250, Math. for El. Gr. (either sem.)
- EE 270, Children's Lit. (either sem.)
- Hi 125 or 126, Surv. U.S. Hist. I or II
- Hum., dist. req. (3 hrs. either sem.)
- Psy 110, General Psychology (1st sem.)
- Psy 220, Educational Psych. (2nd sem.)
- PE 110/110, Physical Education

Third Year

- Elective (3 hrs. either sem.)
- EE 332, Physical Sci. in Elem. Sch.
- EE 341, Teaching of Reading
- EE 344, Health & Safety Education
- EE 361/362, Communications & Group Processes I, II
- Ma 100, Basic Concepts of Math, or one of the following: 102, 111, 112, 161, or 162, as background indicates.
- Psy 321, Childhood & Development
- Soc. Sci., dist. req. (3 hrs. each sem.)*

Fourth Year

- Ar 401, Art in the Elementary School
- Electives (6-9 hrs. 2nd sem.)
- EE 440, Student Teaching (1st sem.)
- EE 444, Senior Seminar
- Hum., dist. req. (3-6 hrs. 2nd sem.)*

* Education 342 is also required and may be taken the second semester of either the third or fourth year.

COOPERATIVE ENGINEERING PROGRAM

Adviser: Dr. Rhodes

Lebanon Valley College offers a cooperative program in engineering whereby a student may earn a Bachelor of Science degree from Lebanon Valley College and a Bachelor of Science degree in one of the fields of engineering from the University of Pennsylvania or other cooperating institution.

Students who pursue this cooperative engineering program take three years of work at Lebanon Valley College in the liberal arts and also in the mathematics and physics courses prerequisite for engineering. Then, if recommended by Lebanon Valley College, they may attend the University of Pennsylvania or other cooperating institution for two additional years of work in engineering. After the satisfactory completion of this five-year program the student is granted the Bachelor of Science degree by Lebanon Valley College while the University grants the appropriate engineering degree. At the University of Pennsylvania the student may select from among eight different curricula—bioengineering, chemical engineering, civil and urban engineering, computer science and engineering, electrical engineering and science, mechanical engineering and applied mechanics, or metallurgy and materials science, and systems science and engineering. A typical curriculum for the first three years of the cooperative engineering program is given below, but each student's curriculum is planned to meet his particular needs.

First Year

En 111/112, English Composition I, II
 For. Lang., gen. req. (3 hrs. each sem.)
 Ma 161, 162, Calculus I, II
 Phy 111/112, Principles of Physics I, II
 Religion, gen. req. (3 hrs. each sem.)
 PE 110/110, Physical Education

Second Year

Electives (3 hrs. each sem.)
 Humanities, dist. req. (3 hrs. each sem.)
 Ma. 261, Calculus III
 Ma. 266, Differential Equations
 Phy 211, Atomic & Nuclear Physics
 Phy 212, Introduction to Electronics

Social Sciences, dist. req.
 (3 hrs. each. sem.)

PE 110/110, Physical Education

Third Year

Ch 111, 112, Principles of Chem. I, II
 Humanities, dist. req. (3 hrs. 1st sem.)
 Ma 361, 362, Methods of Applied Math.
 I, II
 Phy 311, 312, Analytical Mechanics I, II
 Phy 321, 322, Electricity and Magnetism I, II
 Social Sciences, dist. req. (3 hrs. 2nd sem.)

COOPERATIVE FORESTRY PROGRAM

Please consult Dr. Williams

Students completing three years at Lebanon Valley College studying the liberal arts and sciences basic to forestry may apply for admission to the cooperative forestry program with Duke University. Qualified students, admitted by Duke University will receive the professional degree of Master of Forestry from Duke University and the Bachelor of Science degree from Lebanon Valley College after successful completion of a two-year (plus one summer) program at Duke. This program enables students to obtain a B.S. degree and a Master of Forestry degree in five years and one summer.

First Year

Bi 111/112, General Biology I, II
 Ch 111, 112, Principles of Chem. I, II
 En 111/112, English Composition I, II
 Ma 161, Calculus I
 Ma 170, Ele. Statistics*
 CP 110, Basic Computer Language*
 PE 110/110, Physical Education

Second Year

Bi 403, Ecology
 Bi 302, Survey of the Plant Kingdom
 Ch 213, Introducing Organic Chem.
 Ch 214, Organic Chemistry
 Ch 216, Lab. Investigations III
 For. Lang. 111, 112, Interm. Fr, Ger, Ru, or Sp I, II
 Hum., dist. req. (3 hrs. 1st sem.)
 Religion, gen. req. (3 hrs. 2nd sem.)
 Soc. Sci. dist. req. (3 hrs. each sem.)**
 PE 110/110, Physical Education

Third Year

Bi 307, Plant Physiology
Bi 201, Genetics
Bi 306, Microbiology
Phy 103, 104, Gen. College Physics, I, II
Religion, gen. req. (3 hrs. 1st sem.)

MEDICAL TECHNOLOGY

Adviser: Dr. Argot

The medical technology student takes three years of courses at Lebanon Valley College in order to fulfill the requirements of the college and of the Board of Schools of the American Society of Clinical Pathologists. Preceding or during the third year of the program it is the student's responsibility to gain admission to a hospital with an American Medical Association-approved school of medical technology, where he spends the fourth year in training. Lebanon Valley College is affiliated with the following hospitals: Abington, Allentown Sacred Heart, Harrisburg, Harrisburg Polyclinic, Lancaster General and Reading. This curriculum leads to the degree of Bachelor of Science in Medical Technology from Lebanon Valley.

First Year

Bi 111/112, General Biology I, II
Ch 111, 112, Principles of Chem. I, II
En 111/112, English Composition I, II

MUSIC

Adviser: Mr. Fairlamb

First Year

En 111/112, English Composition I, II
For. Lang. 111, 112, Interm. Fr, Ger, Ru, or Sp I, II
Mu 111, 112, Sight Singing I, II
Mu 113, 114, Ear Training I, II
Mu 115, 116, Harmony I, II
Mu, applied music (2 hrs. each sem.)*
Nat. Sci., dist. req. (3-4 hrs. each sem.)
PE 110/110, Physical Education

Soc. Sci., dist. req. (3 hrs. 2nd sem.)
Hum., dist. req. (3 hrs. each semester)

* Recommended

** Ec 110 recommended. One other course in economics may be helpful.

Ma 102 or 161, Algebra & Trig. or Calculus I.
Religion, gen. req. (3 hrs.)
PE 110/110, Physical Education

Second Year

Bi 201, Genetics
Bi 202, Animal Physiology
Ch 213, Introductory Organic Chem.
Ch 214, Organic Chemistry
Ch 216, Lab. Investigations, III
For. Lang. 111, 112, Interm. Fr, Ger, Ru, or Sp I, II
Religion, gen. req. (3 hrs.)
Soc. Sci. or Hum., dist. req. (3 or 6 hrs. 1st sem., 3 or 6 hrs. 2nd sem.)
PE 110/110, Physical Education

Third Year

Bi elective (4 hrs. 1st sem.)*
Bi 306, Microbiology
Elective (3 hrs. either sem.)**
Phy 103, 104, Gen. Coll. Physics I, II
Soc. Sci. or Hum., dist. req. (9 hrs. either sem.)

* Bi 304 or 305 recommended.

** Ma 170 recommended.

Second Year

Electives (3 hrs. 1st sem., 1 hr. 2nd sem.)
Mu 215, Harmony III
Mu 217, Basic Concepts Structure & Style
Mu 224, Counterpoint
Mu 226, Form & Analysis I
Mu 246, Prin. of Conducting
Mu, applied music (2 hrs. each sem.)*
Religion, gen. req. (3 hrs. each sem.)
Soc. Sci., dist. req. (3 hrs. each sem.)
PE 110/110, Physical Education

Third Year

Electives (5 hrs. 2nd sem.)
Hum., dist. req. (3 hrs. each sem.)
Mu 315, Elementary Composition
Mu 316, Keyboard Harmony
Mu 329, Form & Analysis II
Mu 341/342, History and Lit. of Music
I, II
Mu, applied music (2 hrs. each sem.)*
Soc. Sci., dist. req. (3 hrs. 1st sem.)

MUSIC EDUCATION

Adviser: Mr. Smith

Variances by track systems are identified as:

- (a) General track
- (b) Instrumental track
- (c) Keyboard-Vocal track

First Year

Bi 101/102, Intro. to Biology I, II
En 111/112, English Composition I, II
For. Lang. 111, 112, Interm. Fr, Ger,
Ru, or Sp
Mu 111, 112, Sight Singing I, II
Mu 113, 114, Ear Training, I, II
Mu 115, 116, Harmony I, II
Mu 123, Brass I
Mu, applied music (2 hrs. each sem.)*
PE 110/110, Physical Education
(a-b) Mu 124, Brass II
(c) Mu 132, Diction for Singers

Second Year

Ed 110, Social Foundations of Education (2nd sem.)
Mu 215, Harmony III
Mu 217, Basic Concepts of Structure & Style
Mu 226, Form & Analysis I
Mu 227, Percussion I
Mu 231, 232, Woodwind I, II
Mu 246, Principles of Conducting
Mu, applied music (2 hrs. each sem.)*
Psy 110, General Psychology (1st sem.)
Religion, gen. req. (3 hrs. each sem.)
Soc. Sci., dist. req. (3 hrs. each sem.)
PE 110/110, Physical Education

Third Year

Hum., dist. req. (3 hrs. each sem.)
Mu 316, Keyboard Harmony

Fourth Year

Electives (7 hrs. 1st sem., 11 hrs. 2nd sem.)
Art 110, Intro. to Art (hum. dist. req.)
Mu 462, Music Lit. Seminar
Mu, applied music (2 hrs. each sem.)*
Nat. Sci., dist. req. (3 hrs. 1st sem.)

* Study of voice, organ, piano, and band and orchestral instruments.

Mu 334, Meth. & Mat. Gen. Music:
Junior High School
Mu 335, Meth. & Mat. Instrumental:
Gr. 4-6
Mu 337, String I
Mu 341/342, History and Lit. of Music
I, II
Mu, applied music (2 hrs. each sem.)*
(a-b) Mu 327, Percussion II
Mu 336, Meth. & Mat. Instrumental:
Jr.-Sr. High
Mu 338, String II
(a-c) Mu 333, Meth. & Mat. Gen. Music:
Elementary
(b) Elective (3 hrs. 1st sem.)
Mu 345, Instrumental Conducting
(c) Elective (3 hrs. 2nd sem.)
Mu 347, Choral Conducting
(a) Mu 345 or Mu 347

Fourth Year

Elective (3-6 hrs. 2nd sem.)
Hum., dist. req. (3 hrs. 2nd sem.)
Mu 441, Student Teaching
Mu, applied music (1 or 2 hrs. each sem.)*†
Psy 220, Educational Psych. (1st sem.)
Soc. Sci., dist. req. (3 hrs. 2nd sem.)
(a-b) Mu 416, Orchestration
(b) Mu 402, Sem. in Adv. Instrmntl.
Prob.
(c) Mu 404, Mu. Ed. Sem.: Secondary
Level
(a) Mu 402 or Mu 404

* Study of voice, organ, piano, and band and orchestra instruments.

† Private study during the student teaching semester is at the discretion of the student.

NURSING

Adviser: Dr. Wolf

The nursing program consists of the two- or three-year program of an accredited hospital school of nursing and a two-year program in liberal arts at Lebanon Valley College. The two phases of the course may be taken in either order. Completion of the program and receipt of the R.N. (registered nursing) certificate will result in the awarding of the degree of Bachelor of Science in Nursing by Lebanon Valley College. One plan of study is outlined below.

First Year

Natural Science requirement—Select from Bi 101/102, Bi 111/112, Chem. 111, 112 or Phy. 103, 104.

En 111/112, English Composition I, II
For. Lang. 111, 112, Interm. Fr, Ger, Ru, or Sp I, II

Religion, gen. req. (3 hrs. each sem.)

Soc. Sci. or Hum., dist. req. (3 hrs. each sem.)

PE 110/110, Physical Education*

Second Year

Electives (9-11 hrs. each sem.)

Soc. Sci. or Hum., dist. req. (6 hrs. each sem.)

Ma 170, Elem. statistics (recommended)

* Not required if student has the R.N. certificate.

TEACHING

Advisers: Dr. Ebersole, Dr. Albrecht, Mrs. Herr, Dr. Jacques, Mrs. Rogers, Dr. Knight

The requirements listed below are applicable to students desiring to be certified to teach in the Commonwealth of Pennsylvania.

BASIC REGULATIONS—PENNSYLVANIA

INSTRUCTIONAL I CERTIFICATE

A. General Education

Certificates are based on the completion of a minimum of sixty (60) semester hours of acceptable courses in general education with not less than twelve (12) semester hours in the humanities and not less than nine (9) semester hours in each of the following areas: the social sciences and natural sciences.

These requirements apply to both elementary and secondary fields.

B. Elementary Education—Subject Matter Requirements

The Pennsylvania Instructional I certificate may be issued to those who have completed the approved program.

The prospective elementary education teacher is also required to have an academic major or an area of concentration of at least 18 to 24 semester hours.

The area of concentration may be defined as follows:

Study in a single subject such as history; study in a broad field such as

sociology, psychology, and anthropology elected from social science; study in an interdisciplinary field such as courses elected from the humanities, social science, or the natural sciences.

C. Professional Education for Secondary Teacher Certification

Pennsylvania Instructional I certificates are based on the completion of the approved program in the subject field to be taught in the secondary school and a minimum of eighteen (18) semester hours of professional education distributed in the following areas: social foundations of education, human growth and development, materials and methods of instruction and curriculum, and nine (9) semester hours in actual practicum and student teaching experience under approved supervision and appropriate seminars including necessary observation, participation and conferences on teaching problems. The areas of methods and materials of instruction and curriculum, and student teaching shall relate to the subject matter specialization field or fields.

D. Secondary Student Teaching Program

A student concentrating in a major area of interest may, upon the direction of his adviser and approval of the dean of the college, enroll in one of two student teaching programs.

1. Semester of Professional Training

A student desiring to receive, upon graduation, the Pennsylvania Instructional I certificate devotes a semester of the senior year to professional preparation. The sixteen weeks are organized as follows:

Ed. 420. Human Growth and Development. 3:7½:0. See page 56 for course description.

Ed. 430. Practicum and Methods. 3:7½:0. See page 56 for course description.

Some time is devoted to the presentation of data on basic reading instruction to fulfill certification requirements for the Commonwealth of Pennsylvania.

Ed. 440. Student Teaching.

Nine semester hours credit.

The student enters on a full-time student teaching experience of one semester. He is under the direction of a trained teacher in an accredited high school and is counseled and directed by the college director of secondary student teaching. The student teacher also is observed by his major adviser.

Prerequisites for Student Teaching: A student must have:

- a. Maintained a 2.0 grade-point average in his major field,
- b. Completed the basic courses of Education 110, 420, and 430, and
- c. Secured written approval of his major adviser, the director of sec-

ondary student teaching, and the dean of the college in order to be accepted for student teaching in the professional semester of his senior year.

2. Post-Graduate Student Teaching

The post-graduate student teaching program is under the direction of Lebanon Valley College or, by arrangement, may be pursued with any other accredited institution which has provision for supervising student teaching in the public schools.

Because of the necessity of meeting Pennsylvania state certification requirements of proper supervision, only a limited number of students are accepted in the in-service student teaching program. Likewise, assignments are made only to those schools within the range of the institution responsible for supervising the enrollee.

DIRECTORIES

FACULTY AND ADMINISTRATIVE STAFF, 1975-1976

Faculty:

- FREDERICK P. SAMPLE, 1968—;
President.
- CARL Y. EHRHART, 1947—;
Dean of the College.
- WILLIAM H. FAIRLAMB, 1947—;
Secretary of the Faculty.

Emeriti:

- RUTH ENGLE BENDER, 1918-1922,
1924-1970;
*Professor Emeritus of Music Educa-
tion.*
A.B., Lebanon Valley College, 1915;
Oberlin Conservatory; graduate New
England Conservatory.

- O. PASS BOLLINGER, 1950-1973;
*Associate Professor Emeritus of
Biology.*
B.S., Lebanon Valley College, 1928;
M.S., The Pennsylvania State Uni-
versity, 1937.

- D. CLARK CARMEAN, 1933-1972;
Director Emeritus of Admissions.
A.B., Ohio Wesleyan University, 1926;
M.A., Columbia University, 1932.

- GLADYS M. FENCIL, 1921-1927; 1929-
1957;
Registrar Emeritus.
A.B., Lebanon Valley College, 1921.

- DONALD E. FIELDS, 1928-1930;
1947-1970;
Librarian Emeritus.
A.B., Lebanon Valley College, 1924;
M.A., Princeton University, 1928;
Ph.D., University of Chicago, 1935;
A.B. in Library Science, University
of Michigan, 1947.

- SAMUEL O. GRIMM, 1912-1970;
Professor Emeritus of Physics.
B.Pd., State Normal School, Millers-
ville, 1910; A.B., Lebanon Valley
College, 1912; A.M., 1918; Sc.D.,
1942.

- ALVIN H. M. STONECIPHER,
1932-1958;
*Professor Emeritus of Latin Lan-
guage and Literature; Dean Emer-
itus.*
A.B., Vanderbilt University, 1913;
A.M., 1914; Ph.D., 1917; Litt.D.,
Lebanon Valley College, 1962.

- GEORGE G. STRUBLE, 1931-1970;
Professor Emeritus of English.
B.S. in Ed., University of Kansas,
1922; M.S. in Ed., 1925; Ph.D., Uni-
versity of Wisconsin, 1931.

Professors:

- GEORGE D. CURFMAN, 1961—;
Professor of Music Education.
B.S., Lebanon Valley College, 1953;
M.M., University of Michigan, 1957;
D.Ed., The Pennsylvania State Uni-
versity, 1971.

- HILDA M. DAMUS, 1963—;
Professor of German.
M.A., University of Berlin and Jena,
1932; Ph.D., University of Berlin,
1945.

- ROBERT S. DAVIDON, 1970—;
*Professor of Psychology; Chairman
of the Department of Psychology.*
A.B., University of Illinois, 1940;
M.A., University of Pennsylvania,
1946; Ph.D., 1951.

- CLOYD H. EBERSOLE, 1953—;
Professor of Education; Chairman of the Department of Education.
 A.B., Juniata College, 1933; M.Ed., The Pennsylvania State University, 1941; D.Ed., 1954.
- ANNA DUNKLE FABER, 1954—;
Professor of English.
 A.B., Lebanon Valley College, 1948; M.A., University of Wisconsin, 1950; Ph.D., 1954.
- ALEX J. FEHR, 1951—;
Professor of Political Science.
 A.B., Lebanon Valley College, 1950; M.A., Columbia University, 1957; Ph.D., Syracuse University, 1968.
- ARTHUR L. FORD, 1965—;
Professor of English; Chairman of the Department of English.
 A.B., Lebanon Valley College, 1959; M.A., Bowling Green State University, 1960; Ph.D., 1964.
- ELIZABETH M. GEFFEN, 1958—;
Professor of History; Chairman of the Department of History and Political Science.
 B.S. in Ed., University of Pennsylvania, 1934; M.A., 1936; Ph.D., 1958.
- PIERCE A. GETZ, 1959—;
Professor of Organ.
 B.S., Lebanon Valley College, 1951; M.S.M., Union Theological Seminary School of Sacred Music, 1953; A.M.D., Eastman School of Music, 1967.
- KARL L. LOCKWOOD, 1959—;
Professor of Chemistry.
 B.S., Muhlenberg College, 1951; Ph.D., Cornell University, 1955.
- JEAN O. LOVE, 1954—;
Professor of Psychology.
 A.B., Erskine College, 1941; M.A., Winthrop College, 1949; Ph.D., University of North Carolina, 1953.
- JOERG W. P. MAYER, 1970—;
Professor of Mathematics; Chairman of the Department of Mathematics.
 Dipl. Math., University of Giessen, 1953; Ph.D., 1954.
- HOWARD A. NEIDIG, 1948—;
Professor of Chemistry; Chairman of the Department of Chemistry.
 B.S., Lebanon Valley College, 1943; M.S., University of Delaware, 1946; Ph.D., 1948.
- SARA ELIZABETH PIEL, Jan., 1960—;
Professor of Languages.
 A.B., Chatham College, 1928; M.A., University of Pittsburgh, 1929; Ph.D., 1938.
- JACOB L. RHODES, 1957—;
Professor of Physics; Chairman of the Department of Physics.
 B.S., Lebanon Valley College, 1943; Ph.D., University of Pennsylvania, 1958.
- C. F. JOSEPH TOM, 1954—;
Professor of Economics and Business Administration.
 B.A., Hastings College, 1944; M.A., University of Chicago, 1947; Ph.D., 1963.
- *PERRY J. TROUTMAN, 1960—;
Professor of Religion.
 B.A., Houghton College, 1949; M.Div., United Theological Seminary, 1952; Ph.D., Boston University, 1964.
- L. ELBERT WETHINGTON, 1963—;
Professor of Religion; Chairman of the Department of Religion.
 B.A., Wake Forest University, 1944; B.D., Divinity School of Duke University, 1947; Ph.D., Duke University, 1949.
- R. GORDON WISE, 1973—;
Adjunct Professor of Art.
 B.S., University of Missouri, 1960; M.A., Roosevelt University, 1964; Ed.D., University of Missouri, 1970.

Associate Professors:

- JAMES O. BEMESDERFER, 1959—;
Adjunct Associate Professor of Religion.
- ELAINE S. BERSON, 1970—;
Associate Professor of Sociology; Chairman of the Department of Sociology.
A.B., University of Illinois, 1950;
M.S.W., University of Oklahoma, 1953; Ph.D., Duke University, 1958.
- CHARLES T. COOPER, 1965—;
Associate Professor of Spanish; Acting Chairman of the Department of Foreign Languages.
B.S., U.S. Naval Academy, 1942;
M.A., Middlebury College, 1965.
- WILLIAM H. FAIRLAMB, 1947—;
Associate Professor of Piano and Music History.
Mus.B., cum laude, Philadelphia Conservatory, 1949.
- WILLIAM M. FLEISCHMAN, 1973—;
Associate Professor of Mathematics.
B.A., Lehigh University, 1959; M.S., 1964; Ph.D., 1967.
- JUNE EBY HERR, 1959—;
Associate Professor of Elementary Education.
B.S., Lebanon Valley College, 1943;
M.Ed., The Pennsylvania State University, 1954.
- JOHN P. KEARNEY, 1971—;
Associate Professor of English.
B.A., St. Benedict's College, 1962;
M.A., University of Michigan, 1963;
Ph.D., University of Wisconsin, 1968.
- THOMAS A. LANESE, 1954—;
Associate Professor of Strings, Conducting, and Theory.
B.Mus., Baldwin-Wallace College, 1938; fellowship, Juilliard Graduate School; M.Mus., Manhattan School of Music, 1952.
- DAVID I. LASKY, 1974—;
Associate Professor of Psychology.
A.B., Temple University, 1956; M.A., 1958; Ph.D., 1961.
- AGNES B. O'DONNELL, 1961—;
Associate Professor of English.
A.B., Immaculata College, 1948;
M.Ed., Temple University, 1953;
M.A., University of Pennsylvania, 1968.
- J. ROBERT O'DONNELL, 1959—;
Associate Professor of Physics.
B.S., The Pennsylvania State University, 1950; M.S., University of Delaware, 1953.
- ROBERT W. SMITH, 1951—;
Associate Professor of Music Education; Chairman of the Department of Music.
B.S., Lebanon Valley College, 1939;
M.A., Columbia University, 1950.
- JAMES N. SPENCER, 1967—;
Associate Professor of Chemistry.
B.S., Marshall University, 1963; Ph.D., Iowa State University, 1967.
- FRANK E. STACHOW, 1946—;
Associate Professor of Theory and Woodwinds.
Diploma, clarinet, Juilliard School of Music; B.S., Columbia University, 1943; M.A., 1946.
- JAMES M. THURMOND, 1954—;
Associate Professor of Music Education and Brass.
Diploma, Curtis Institute of Music, 1931; A.B., American University, 1951; M.A., Catholic University, 1952; Mus.D., Washington College of Music, 1944.
- PAUL L. WOLF, 1966—;
Associate Professor of Biology; Chairman of the Department of Biology.
B.S., Elizabethtown College, 1960;
M.S. University of Delaware, 1963;
Ph.D., 1968.

GLENN H. WOODS, 1965—;
Associate Professor of English.
A.B., Lebanon Valley College, 1951;
M.Ed., Temple University, 1962.

Assistant Professors:

MADELYN J. ALBRECHT, 1973—;
Assistant Professor of Education.
B.A., Northern Baptist College, 1952;
M.A., Michigan State University,
1958; Ph.D., 1972.

JEANNE E. ARGOT, 1969—;
Assistant Professor of Biology.
B.S., Moravian College, 1965; M.S.,
Lehigh University, 1967; Ph.D., 1969.

DAVID N. BAILEY, 1971—;
Assistant Professor of Chemistry.
B.S., Juniata College, 1963; Ph.D.,
Massachusetts Institute of Technol-
ogy, 1968.

RICHARD C. BELL, 1966—;
Assistant Professor of Chemistry.
B.S., Lebanon Valley College, 1941;
M.Ed., Temple University, 1955.

PHILIP A. BILLINGS, 1970—;
Assistant Professor of English.
B.A., Heidelberg College, 1965;
M.A., Michigan State University,
1967; Ph.D., 1970.

JAY R. BUFFENMYER, 1974—;
*Assistant Professor of Economics and
Business Administration; Chairman
of the Department of Economics and
Business Administration.*
B.S., Elizabethtown College, 1961;
M.P.I.A. University of Pittsburgh,
1967; Ph.D., 1970.

FAY B. BURRAS, 1964—;
Assistant Professor of Mathematics.
A.B., Lebanon Valley College, 1960;
M.A., Smith College, 1961.

RONALD G. BURRICHTER,
1968-1971; 1973—;
Assistant Professor of Music.
B.M.E., Wartburg College, 1964;
M.M., Peabody Conservatory of Mu-
sic, 1968.

DONALD E. BYRNE, JR., 1971—;
Assistant Professor of Religion.
B.A., St. Paul Seminary, 1963; M.A.,
Marquette University, 1966; Ph.D.,
Duke University, 1972.

VOORHIS C. CANTRELL, 1968—;
*Assistant Professor of Religion and
Greek.*
B.A., Oklahoma City University,
1952; B.D., Southern Methodist Uni-
versity, 1956; Ph.D., Boston Univer-
sity, 1967.

ROGER D. CARLSON, 1972—;
Assistant Professor of Psychology.
A.B., Sacramento State College, 1968;
M.A., 1969; Ph.D., University of
Oregon, 1972.

VIRGINIA E. ENGLEBRIGHT,
1971—;
Assistant Professor of Voice.
B.M.E., Florida State University,
1969; M.M., 1970.

DAVID M. GRING, 1971—;
Assistant Professor of Biology.
B.A., Franklin and Marshall College,
1967; M.A., Indiana University,
1970; Ph.D., 1971.

BRYAN V. HEARSEY, 1971—;
Assistant Professor of Mathematics.
B.A., Western Washington State Col-
lege, 1964; M.A., Washington State
University, 1966; Ph.D., 1968.

JOHN H. HEFNER, 1972—;
Assistant Professor of Philosophy.
B.S., Lebanon Valley College, 1968;
A.M., Boston University, 1971; Ph.D.,
1976.

RICHARD A. ISKOWITZ, 1969—;
Assistant Professor of Art.
B.F.A., Kent State University, 1965;
M.F.A., 1967.

L. EUGENE JACQUES, 1975—;
Assistant Professor of Education.
B.A., University of Pittsburgh, 1937;
M.Ed., 1941; D.Ed., 1952.

- RICHARD A. JOYCE, 1966—;
Assistant Professor of History.
A.B., Yale University, 1952; M.A.,
San Francisco State College, 1963.
- RICHARD N. W. KIRBY, 1971-1972;
1974—;
Assistant Professor of English.
B.A. University of Leicester, 1966;
M.A., 1967; Ph.D., University of Sus-
sex, 1972.
- EVA GOFF KNIGHT, 1975—;
Adjunct Assistant Professor of
Education.
B.A., Goucher College, 1955; M.A.,
Columbia University, 1963; C.A.S.E.,
Johns Hopkins University, 1964;
Ed.D., Columbia University, 1968.
- ROYAL E. KNIGHT, 1975—;
Assistant Professor of Economics and
Business Administration.
B.S., Eastern Illinois University, 1955;
M.S., 1970.
- NEVELYN J. KNISLEY, 1954-1958;
1963; 1970—;
Adjunct Assistant Professor of Piano.
Mus.B., Oberlin Conservatory of
Music, 1951; M.F.A., Ohio Univer-
sity, 1953.
- ROBERT C. LAU, 1968—;
Assistant Professor of Musical Theory.
B.S., Lebanon Valley College, 1965;
M.A., Eastman School of Music,
1970.
- LEON E. MARKOWICZ, 1971—;
Assistant Professor of English.
A.B., Duquesne University, 1964;
M.A., University of Pennsylvania,
1968; Ph.D., 1972.
- JOHN W. MARTIN, 1971—;
Assistant Professor of French.
B.A., Yale University, 1958; M.A.,
San Diego State College, 1967; Ph.D.,
University of Rochester, 1972.
- KATHLEEN E. McNERNEY, 1974—;
Assistant Professor of Spanish.
B.A., University of New Mexico,
1967; M.A., 1969.
- OWEN A. MOE, JR., 1973—;
Assistant Professor of Chemistry.
B.A., St. Olaf's College, 1966; Ph.D.,
Purdue University, 1971.
- PHILIP G. MORGAN, 1969—;
Assistant Professor of Voice.
B.M.E., Kansas State College, 1962;
M.S., 1965.
- JOHN D. NORTON, 1971—;
Assistant Professor of Political Science.
B.A., University of Illinois, 1965;
M.A., Florida State University, 1967;
Ph.D., American University, 1973.
- ROBERT L. NOWICKI, JR., 1975—;
Assistant Professor of German.
A.B., Fordham University, 1966;
M. Phil., Yale University, 1970.
- JANETTE E. OGG, 1975—;
Assistant Professor of Voice.
A.B., Asbury College, 1958; M.A.,
University of North Carolina, 1969;
D.M., Florida State University, 1975.
- JOSEPH E. PETERS, 1974—;
Adjunct Assistant Professor of
Psychology.
B.S., Juniata College, 1968; M.S.,
Pennsylvania State University, 1970;
Ph.D., 1973.
- GERALD J. PETROFES, 1963—;
Assistant Professor of Physical Ed-
ucation; Chairman of the Depart-
ment of Physical Education.
B.S., Kent State University, 1958;
M.Ed., 1962.
- O. KENT REED, 1971—;
Assistant Professor of Physical Ed-
ucation.
B.S. in Ed., Otterbein College, 1956;
M.A. in Ed., Eastern Kentucky Uni-
versity, 1970.
- DENNIS W. SWEIGART, 1972—;
Assistant Professor of Piano.
B.S., Lebanon Valley College, 1963;
M.M., University of Michigan, 1965.

- PHILLIP E. THOMPSON, 1974—;
Assistant Professor of Physics.
B.S., Lebanon Valley College, 1968;
Ph.D., University of Delaware, 1975.
- WARREN K. A. THOMPSON,
1967—;
Assistant Professor of Philosophy;
Chairman of the Department of
Philosophy.
A.B., Trinity University, 1957; M.A.,
University of Texas, 1963.
- WALLACE J. TORONI, 1975—;
Adjunct Assistant Professor of Strings.
Graduate, New School of Music,
1959.
- ANN L. HENNINGER TRAX,
1973—;
Assistant Professor of Biology.
B.A., Wilson College, 1968; Ph.D.,
University of Michigan, 1973.
- WILLIAM H. G. WARNER, 1972—;
Assistant Professor of Economics
and Business Administration.
B.A., Haverford College, 1939; J.D.,
University of Pennsylvania, 1946.
- EDWIN H. WELCH, 1975—;
Assistant Professor of Sociology.
A.B., Western Maryland College,
1965; S.T.B., Boston University
School of Theology, 1968; Ph.D.,
1971.
- STEPHEN E. WILLIAMS, 1973;—
Assistant Professor of Biology.
B.A., Central College, 1964; M.S.,
University of Tennessee, 1966; Ph.D.,
Washington University, 1971.
- SUSAN E. VERHOEK WILLIAMS,
1974—;
Assistant Professor of Biology.
B.A., Ohio Wesleyan University,
1964; M.A., Indiana University, 1966;
Ph.D., Cornell University, 1975.
- ALLAN F. WOLFE, 1968—;
Assistant Professor of Biology.
B.A., Gettysburg College, 1963; M.A.,
Drake University, 1965; Ph.D., Uni-
versity of Vermont, 1968.
- ROSEMARY YUHAS, 1973—;
Assistant Professor of Physical
Education.
B.S., Lock Haven State College, 1966;
M.Ed., West Chester State College,
1970.
- Instructors:**
- ROBERT A. AULENBACH, 1968—;
Adjunct Instructor in Woodwinds.
B.M., Boston Conservatory of Music,
1949.
- DAVID V. BILGER, 1974—;
Adjunct Instructor in Woodwinds.
B.M., Ithaca College, 1967.
- ROBERT B. CAMPBELL, 1968—;
Adjunct Instructor in Woodwinds.
B.S., Lebanon Valley College, 1954;
M.M., University of Michigan, 1960.
- JAMES W. CHECKET, 1973—;
Adjunct Instructor in Brass.
B.S., Lebanon Valley College, 1959.
- BRUCE S. CORRELL, 1972—;
Instructor in Physical Education.
B.S., Bowling Green State Univer-
sity, 1971; M.Ed., 1972.
- JAMES L. DUNN, 1972—;
Adjunct Instructor in Woodwinds.
B.S., Lebanon Valley College, 1964;
M.M., University of Michigan, 1968.
- KENNETH FINE, 1975—;
Adjunct Instructor of Music.
- RICHARD D. FINK, 1973—;
Adjunct Instructor in Actuarial
Science.
B.S., Ursinus College, 1948.
- NADIA K. GARMAN, 1975—;
Adjunct Instructor in Russian.
B.S., Millersville State College, 1968.
- GUY A. GIFFORD, 1974—;
Adjunct Instructor in Flute.
B. of M., Catholic University, 1970

- JOSEPH A. GOEBEL, JR., 1972—;
Adjunct Instructor in Percussion.
B.S. in Ed., Millersville State College, 1961.
- WILLIAM A. GROVE, 1971—;
Adjunct Instructor in Brass.
B.S., Lebanon Valley College, 1965;
M.M., Temple University, 1974.
- JAMES P. O'NEILL, 1974—;
Instructor in Economics and Business Administration.
B.S., Fordham University, 1965; M.A.,
University of New Mexico, 1974.
- H. DONALD REED, 1975—;
Adjunct Instructor in Brass.
B.S., Lebanon Valley College, 1964;
M.Ed., West Chester State College,
1973.
- SARAH F. ROGERS, 1975—;
Instructor in Elementary Education.
A.B., University of South Carolina,
1943; M.A., Columbia University,
1944; M.A. in Special Ed., American
University, 1972.
- DEBORAH E. SANFORD, 1975—;
Instructor in Piano.
B.A., University of Pennsylvania,
1971; M.M., Temple University, 1975.
- FRANCIS P. SATALIN, JR., 1975—;
Instructor in Physical Education.
B.A., St. Bonaventure University,
1967; M.S. in Counseling, Syracuse
University, 1971; M.S., in Physical
Education, 1974.
- MALIN Ph. SAYLOR, 1961—;
Adjunct Instructor in French.
Fil. Kand., Universities of Upsala
and Stockholm, 1938.
- GLORIA E. STAMBACH, 1970-1973;
1975—;
Adjunct Instructor in Piano.
Diploma, Juilliard School of Music,
1952; Post Graduate Diploma, 1956.
- VIRGINIA T. WATKINS, 1972—;
Instructor in Piano.
B.M., Muskingum College, 1970;
M.M., Manhattan School of Music,
1972.

OFFICES OF ADMINISTRATION

Office of the President:

FREDERICK P. SAMPLE, 1968—;
President.

B.A., Lebanon Valley College, 1952;
M.Ed., Western Maryland College,
1956; D.Ed., The Pennsylvania State
University, 1968; Pd.D., Albright
College, 1968.

DOROTHY M. SPOHN, *Secretary.*

LILLIAN M. SUMMER, *Secretary.*

Academic:

Office of the Dean of the College

CARL Y. EHRHART, 1947—;
Dean of the College, 1960—;
Vice President, 1967—.

A.B., Lebanon Valley College, 1940;
M.Div., United Theological Sem-
inary, 1943; Ph.D., Yale University,
1954.

RALPH S. SHAY, 1948-1951; Feb.
1953—;

Assistant Dean of the College, 1967—.
A.B., Lebanon Valley College, 1942;
A.M., University of Pennsylvania,
1947; Ph.D., 1962.

MARIAN C. ROGERS, *Secretary.*

Office of Admissions

GREGORY G. STANSON, 1966—;
Director of Admissions, 1972—.

B.A., Lebanon Valley College, 1963;
M.Ed., University of Toledo, 1966.

JOSEPH L. ROESER, 1975—;

Counselor in Admissions.

B.S., Elizabethtown College, 1961.

SYLVIA H. SNYDER, *Secretary.*

LORETTA A. WATSON, *Secretary.*

Office of the Registrar

RALPH S. SHAY, 1948-1951; Feb.
1953—;

*Assistant Dean of the College and
Registrar*, 1967—.

GLORIA I. FERNSLER, *Secretary.*

MARION G. LOY, *Secretary.*

Library

WILLIAM E. HOUGH, III, 1970—;
Head Librarian; Associate Professor.
A.B., The King's College, 1955;
Th.M., Dallas Theological Seminary,
1959; M.S.L.S., Columbia University,
1965.

ELOISE P. BROWN, 1961—;

Reference Librarian.

B.S.L.S., Simmons College, 1946.

ALICE S. DIEHL, 1966—;

Cataloging Librarian.

A.B., Smith College, 1956; B.S., Car-
negie Institute of Technology, 1957;
M.L.S., University of Pittsburgh,
1966.

MYUNG JA KANG, 1970—;

Assistant Cataloging Librarian.

B.A., Sook Myung Women's Univer-
sity, 1962; M.S.L.S., Villanova Uni-
versity, 1969.

CHRISTINE M. HOPPLE, *Secretary.*

GERALDINE E. LENTZ, *Secretary.*

Departmental Secretaries

KATHY M. CHECKET, *Blair Music
Center.*

CAROL L. KREISER, *Miller Chapel.*

ELIZABETH C. MICHIELSEN, *112
College Avenue.*

EVELYN D. NAGLE, *Administration
Building.*

MARILYN F. PARKER, *Lynch Me-
morial Building.*

CHARLOTTE J. RITTLE, *Science
Hall.*

BERNICE K. TEAHL, *Science Hall.*

MAE B. WALLACE, *Teacher Place-
ment.*

Student Affairs:

Student Personnel Office

GEORGE R. MARQUETTE, 1952—;
Dean of Students, 1972—.

A.B., Lebanon Valley College, 1948;
M.A., Columbia University, 1951;
Ed.D., Temple University, 1967.

FRANCES C. NORTHRUP, 1974—;
Assistant Dean of Students.

R.N., Fairview Park Hospital, 1967;
B.S., Johns Hopkins University,
1972; M.Ed., Johns Hopkins Univer-
sity, 1974.

LOUIS A. SORRENTINO, 1971—;
Assistant Dean of Students, 1974—.

B.A., Lebanon Valley College, 1954;
M.A., Bucknell University, 1961.

MARCIA J. GEHRIS, 1972—;
Assistant to the Dean of Students.

B.A., Lebanon Valley College, 1969.

ESTHER A. KLINE, *Secretary*.

JUNE S. ZEITERS, *Secretary*.

MARY P. KELSEY, *Head Resident*,
Mabel I. Silver Hall.

MARY M. COX, *Head Resident*, Vick-
roy Hall.

KATHRYN E. ROHLAND, *Head Res-
ident*, Mary Capp Green Hall.

College Center

WALTER L. SMITH, JR., 1961-1969;
1971—;

*College Center Director; Coordina-
tor of Conferences*.

B.S., Lebanon Valley College, 1961;
M.S. in Ed., Temple University, 1967.

ROBERT E. HARNISH, 1967—;
Manager of the College Store;

*Business Manager of the Concert
Choir and Chamber Orchestra*.

B.A., Randolph Macon College, 1966.

DORIS C. FAKE, *Secretary, College
Store*.

Health Services

ROBERT F. EARLY, 1971—;

College Physician.

B.S., Lebanon Valley College, 1949;
M.D., Jefferson Medical College,
1952.

RUSSELL L. GINGRICH, 1971—;

College Physician.

B.S., Lebanon Valley College, 1947;
M.D., Jefferson Medical College,
1951.

ROBERT M. KLINE, 1970—;

College Physician.

B.S., Lebanon Valley College, 1950;
M.D., Jefferson Medical College,
1955; B.A., Lebanon Valley College,
1971.

JULIANA Z. WOLFE, 1975—;

Head Nurse.

R.N., St. Joseph's Hospital, Carbon-
dale, 1963.

CAROL FOUST, R.N., *Resident
Nurse*.

SYBIL HADDON, R.N., *Resident
Nurse*.

Office of the Chaplain

JAMES O. BEMESDERFER, 1959—;
College Chaplain.

A.B., Lebanon Valley College, 1936;
M.Div., United Theological Sem-
inary, 1939; S.T.M., Lutheran Theo-
logical Seminary, Phila., 1945; S.T.D.,
Temple University, 1951.

CAROL L. KREISER, *Secretary*.

Office of Athletics

GERALD J. PETROFES, 1963—;
Director of Athletics.

MARILYN F. PARKER, *Secretary*.

Coaching Staff

JEFFREY L. BENSING, 1973—;
Soccer Coach.

B.S., Elizabethtown College, 1964;
Ph.D., Brown University, 1971.

BRUCE S. CORRELL, 1972—;
Lacrosse Coach; Assistant Basketball Coach.

JAMES F. DAVIS, 1972—;
Cross Country Coach.
B.A., Lebanon Valley College, 1969.

CHARLES E. EYLER, 1971—;
Assistant Football Coach.
B.S. in Ed., West Chester State College, 1953; M.S. in Ed., Temple University, 1963; M.S., University of New Hampshire, 1968.

FRANK GRABUSKY, 1975—;
Assistant Football Coach.
B.S., Millersville State College, 1969.

TERRY L. KLINE, 1974—;
Athletic Trainer.
B.S. in Ed., Millersville State College, 1969.

JOHN T. LOFTUS, 1975—;
Assistant Basketball Coach.
B.S., King's College, 1969.

KENNETH D. MILLER, 1974—;
Equipment Manager.

GERALD J. PETROFES, 1963—;
Wrestling Coach; Golf Coach.

O. KENT REED, 1971—;
Assistant Football Coach; Track Coach; Director of Intramurals for Men.

FRANCIS P. SATALIN, JR., 1975—;
Basketball Coach; Baseball Coach.

LOUIS A. SORRENTINO, 1971—;
Football Coach.

JACQUELINE S. WALTERS, 1965—;
Women's Hockey Coach.

ROSEMARY YUHAS, 1973—;
Women's Basketball Coach, Women's Lacrosse Coach, Director of Intramurals for Women.

College Relations Area:

Development Office

ROBERT M. WONDERLING,
1967—;

Director of Development.
B.S., Clarion State College, 1953;
M.Ed., University of Pittsburgh, 1958.

JAMES F. DAVIS, 1972—;
Assistant Director of Development,
1974—.
B.A., Lebanon Valley College, 1969.

MARILYN E. BOESHORE, *Secretary.*

DORIS J. MAY, *Secretary.*

Public Relations Office

ANN K. MONTEITH, 1966—;
Director of Public Relations.
A.B., Bucknell University, 1965.

LOTTIE M. BROWN, 1974—;
Associate in Public Relations, 1975—;
B.A., University of Arkansas, 1949.

HAROLD D. ULMER, 1973—;
Associate in Public Relations.
B.A., Lebanon Valley College, 1973.

Alumni Office

DAVID M. LONG, 1966—;
Director of Alumni Relations and Industrial Placement.
A.B., Lebanon Valley College, 1959;
M.Ed., Temple University, 1961.

HELEN L. MILLER, *Secretary.*

Business Management:

Office of the Controller

ROBERT C. RILEY, 1951—;
Controller, 1962—; *Vice President,*
1967—.
B.S. in Ed., Shippensburg State College, 1941; M.S., Columbia University, 1947; Ph.D., New York University, 1962.

IRWIN R. SCHAACK, 1957—;
Assistant Controller, 1964—; *Financial Aid Officer,* 1967—.

ROBERT C. HARTMAN, 1969—;
Accountant.
B.S., Elizabethtown College, 1962.

RONALD G. EVANS, *Administrative Services.*

SANDRA K. KELLIHER, *Switchboard Operator.*

MARY R. MILLS, *Administrative Services.*

CHERYL L. NEWMASER, *Secretary, Assistant Controller.*

THOMAS A. PEIFFER, *Administrative Services.*

JOANNE J. STRAWDERMAN, *Secretary, Vice President and Controller.*

ERMA R. STONE, *Secretary Business Office.*

LILLIAN G. STRANGE, *Secretary, Vice President and Controller.*

FLORENCE B. WILLIAMS, *Secretary, Business Office.*

Buildings and Grounds

SAMUEL J. ZEARFOSS, 1952—;
Superintendent of Buildings and Grounds, 1969—.

WILLIE E. CARLISLE, 1974—;
Director of Maintenance, 1975—.

HERMAN W. HEISEY, 1975—;
Chief of Security

DELLA M. NEIDIG, 1962—;
Director of Housekeeping, 1972—;

MARY E. RHINE, *Secretary, Buildings and Grounds.*

Food Service

GEORGE F. LANDIS, JR., 1966—;
Manager of Food Service, 1970—.

MILDRED J. REESE, 1969—;
Manager of the Snack Shop, 1973—.

COMMITTEES OF THE FACULTY—1975-1976

Central Committee

Mr. Cooper	Dr. Lockwood	Dr. Wolfe, <i>Secretary</i>
Mr. Joyce, <i>Chairman</i>	Dr. Rhodes	

Curriculum Committee

Dean Ehrhart, <i>Chairman</i>	Mr. Iskowitz	Dr. Shay, <i>advisory member</i>
Dr. Berson	Dr. Mayer	Joy J. Hoffman, <i>student</i>
Dr. Buffenmyer	Dr. Neidig	Curtis G. Kemmerer, <i>student</i>
Mr. Cooper	Mr. Petrofes	Keith J. Kominiak, <i>student</i>
Dr. Davidon	Dr. Rhodes	Jeffrey A. Loser, <i>student</i>
Dr. Ebersole	Mr. Smith	Kenneth O. Mosteller, <i>student</i>
Dr. Ford	Mr. Thompson	William L. Routson, <i>student</i>
Dr. Geffen	Dr. Wethington	
Mr. Hough	Dr. Wolf	

Academic Life Committee

Dr. Berson	Dr. Carlson	Mr. Lanese
Dr. Buffenmyer, <i>Secretary</i>	Dr. Henninger, <i>Chairman</i>	Mr. O'Donnell
Dr. Byrne	Dr. Jacques	Dr. Wolf

Continuing Committee on Liberal Education

Dr. Ebersole	Dr. Kearney	Dr. Spencer
Dr. Getz	Dr. Kirby	Mr. Thompson, <i>Vice Chairman</i>
Dr. Gring	Mr. Lau	Dr. Tom
Dr. Hearsey	Dr. Markowicz	Dean Ehrhart, <i>Ex officio</i>
Mr. Joyce	Dr. Martin	
	Dr. Neidig, <i>Chairman</i>	

Faculty Life Committee

Dr. Bailey, <i>Secretary</i>	Dr. Norton, <i>Chairman</i>	Mr. Petrofes
Dr. Davidon	Mr. Nowicki	Mr. Stachow
Mr. Heffner	Mr. O'Neill	Dr. Verhoek
Dr. Lasky		

General Campus Life Committee

Dr. Albrecht	Dr. Fleischman, <i>Chairman</i>	Dr. Thompson
Dr. Argot	Dr. Ford, <i>Secretary</i>	Dr. Thurmond
Dr. Faber	Mrs. O'Donnell	Mr. Woods
Dr. Fehr		

Student Life Committee

Mr. Bell	Mrs. Englebright	Dr. Warner
Mr. Billings, <i>Chairman</i>	Mrs. Herr	Dr. Welch
Mr. Burrichter	Dr. Mayer	Miss Yuhas
Mr. Correll	Mr. Reed, <i>Secretary</i>	

THE BOARD OF TRUSTEES 1975-1976

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MEMBERS:

- | | |
|--|--|
| **Edward H. Arnold (1978)
B.A.
President, New Penn Motor Express,
Inc.
Lebanon, Pennsylvania | †Nicholas Bova, Jr. (1978)
B.S.
Vice President, International
Division of Avon Products Inc.
New York City, New York |
| **James M. Ault (1977)
A.B., B.D., S.T.M., D.D., LL.D.
Resident Bishop of the Philadelphia
Area
Eastern Pennsylvania Conference
United Methodist Church
Philadelphia, Pennsylvania | *W. Edgar Cathers, Jr. (1977)
B.A., B.D.
Administrator
Simpson House
The United Methodist Church
Philadelphia, Pennsylvania |
| **Jefferson C. Barnhart (1977)
A.B., LL.B.
Attorney—McNees, Wallace and
Nurick
Harrisburg, Pennsylvania | *Ruth Sheaffer Daugherty (1977)
B.A.
Homemaker
Lancaster, Pennsylvania |
| *George W. Bashore (1976)
A.B., M.Div.
Superintendent, Lebanon-Reading
District
Eastern Pennsylvania Conference
United Methodist Church
Reading, Pennsylvania | **Curvin N. Dellinger (1976)
B.S.
President, J. C. Hauer's Sons Inc.
Lebanon, Pennsylvania |
| †Alfred L. Blessing (1978)
A.B.
District Manager, McGraw-Hill Inc.
New York City, New York | *Woodrow S. Dellinger (1978)
B.S., M.D.
General Practitioner
Red Lion, Pennsylvania |
| *William D. Boswell (1977)
Ph.B., LL.B.
Attorney—Berman and Boswell
Harrisburg, Pennsylvania | **DeWitt M. Essick (1977)
Assistant General Manager,
Personnel Relations, Armstrong
Cork Company
Lancaster, Pennsylvania |
| | **Neil E. Fasnacht (1976)
Student, Lebanon Valley College
Annville, Pennsylvania |
| | *Eugene C. Fish (1975)
B.S., J.D.
President, Peerless Industries, Inc.
Boyetown, Pennsylvania |

* Elected by Church Conference

** Trustee-at-Large

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- Chairman of the Board—Eastern Foundry Co., Boyertown, Pennsylvania
- Attorney—Romeika, Fish and Scheckter
Philadelphia, Pennsylvania
- Sr. Partner, Tax Associates
Philadelphia, Pennsylvania
- **Pierce A. Getz (1978)
B.S., M.S.M., A.M.D.
Professor of Organ
Lebanon Valley College
Annville, Pennsylvania
- *Kathryn Mowrey Grove (1977)
A.B.
Homemaker
Philadelphia, Pennsylvania
- *Thomas W. Guinivan (1976)
A.B., B.D., D.D.
Superintendent, York District
Central Pennsylvania Conference
United Methodist Church
York, Pennsylvania
- **John Richards Harper (1978)
Vice President, Pardee Company
Philadelphia, Pennsylvania
- *Philip C. Herr, II (1976)
A.B., LL.B.
Attorney—Herr, Potts and Herr
Philadelphia, Pennsylvania
- *Paul E. Horn (1976)
A.B., B.D., D.D.
Pastor, Stevens Memorial
United Methodist Church
Harrisburg, Pennsylvania
- *Mark J. Hostetter (1976)
A.B., B.D., S.T.M., D.D.
Pastor, Morrisville United Methodist
Church, Morrisville, Pennsylvania
- *Gerald D. Kauffman (1976)
A.B., B.D., D.D.
Pastor, Grace United Methodist
Church
Carlisle, Pennsylvania
- **James H. Leathem (1977)
B.S., M.A., Ph.D., Sc.D.
Professor of Zoology & Director of
the Bureau of Biological Research
Rutgers, The State University
New Brunswick, New Jersey
- †Walter Levinsky (1977)
Free-lance Musician, Composer, and
Conductor
New York City, New York
- ‡Karl L. Lockwood (1977)
B.S., Ph.D.
Professor of Chemistry
Lebanon Valley College
Annville, Pennsylvania
- *Thomas S. May (1978)
B.S., B.D., D.D.
Pastor, St. Paul's United Methodist
Church
Elizabethtown, Pennsylvania
- **Allan W. Mund (1978)
L.L.D., D.B.A.
Retired Chairman, Board of
Directors
Ellicott Machine Corporation,
Baltimore, Maryland
- ‡Howard A. Neidig (1976)
B.S., M.S., Ph.D.
Chairman, Department of Chemistry,
Professor of Chemistry
Lebanon Valley College
Annville, Pennsylvania
- *Henry H. Nichols (1978)
B.S., B.A., B.D., S.T.B., D.D., LL.D.
Pastor, Janes Memorial United
Methodist Church
Philadelphia, Pennsylvania
- ‡Agnes B. O'Donnell (1977)
A.B., M.Ed., M.A.
Associate Professor of English
Lebanon Valley College
Annville, Pennsylvania
- *Harold S. Peiffer (1977)
A.B., B.D., S.T.M., D.D.
Superintendent, Northeast District
Eastern Pennsylvania Conference
United Methodist Church
Philadelphia, Pennsylvania

* Elected by Church Conference

** Trustee-at-Large

† Alumni Trustee-at-Large

‡ Faculty Trustee-at-Large

- *Kenneth Plummer (1978)
Vice President, E. D. Plummer Sons,
Inc.
Chambersburg, Pennsylvania
- **Lawrence E. Priester (1976)
Student, Lebanon Valley College
Annville, Pennsylvania
- *Ezra H. Rank (1976)
A.B., B.D., D.D.
Pastor, Milton Grove and St. Mark's
United Methodist Church
Mt. Joy, Pennsylvania
- **Daniel S. Reifsnnyder (1976)
Student, Lebanon Valley College
Annville, Pennsylvania
- *Mildred M. Reigh (1978)
B.A., M.Ed., M.S.
Professor of Mathematics
Indiana University of Pennsylvania
Indiana, Pennsylvania
- ‡Jacob L. Rhodes (1976)
B.S., Ph.D.
Chairman, Department of Physics,
Professor of Physics
Lebanon Valley College
Annville, Pennsylvania
- **Herbert C. Richman, Jr. (1978)
B.S.
Executive Vice-President,
Marts and Lundy, Inc.
New York City, New York
- *Melvin S. Rife (1977)
Treasurer, Schmidt and Ault Paper
Co., Div. St. Regis Paper Company
York, Pennsylvania
- *Ralph M. Ritter (1976)
President, Ritter Brothers, Inc.
Harrisburg, Pennsylvania
- †F. Allen Rutherford, Jr. (1978)
B.S., C.P.A.
Principal, Arthur Young and
Company
Richmond, Virginia
- Frederick P. Sample
B.A., M.Ed., D.Ed., Pd.D.
President of the College
Annville, Pennsylvania
- *Daniel L. Shearer (1977)
A.B., B.D., S.T.M., D.D.
Director—Program Council
Central Pennsylvania Conference
United Methodist Church
Harrisburg, Pennsylvania
- *Lawton W. Shroyer (1975)
President, Shamokin Dress Company
and Shroyer's, Inc.
Shamokin, Pennsylvania
- **Horace E. Smith (1977)
A.B., LL.B.
Attorney—Smith and McCleary
York, Pennsylvania
- *Paul E. Stambach (1977)
A.B., B.D., S.T.M., Ph.D.
Pastor, Otterbein United Methodist
Church
Mount Wolf, Pennsylvania
- **Sara K. Stauffer (1978)
B.S.
Treasurer
Leola Supply Co. of Leola and
Maryland
Leola, Pennsylvania
- †E. Peter Strickler (1977)
B.S.
President, Strickler Insurance
Agency, Inc.
Lebanon, Pennsylvania
- **Woodrow W. Waltemyer (1978)
Business Executive
St. Thomas, U.S. Virgin Islands
- **John B. Warman (1977)
A.B., B.D., Ed.M., D.D.
Bishop, Harrisburg Area
Central Pennsylvania Conference
United Methodist Church
Harrisburg, Pennsylvania
- †Elizabeth K. Weisburger (1976)
B.S., Ph.D.
Scientist Director, Biology Branch
National Cancer Institute
Bethesda, Maryland

* Elected by Church Conference

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B.S., M.B.A.

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B.M.

Assistant Professor of Music

York College of Pennsylvania

Director of Music, Asbury United

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B.A.

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Hershey Foods Corp.

Hershey, Penna. 17033

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Retired Bishop, Central Pennsylvania
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Key Alumnus

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Newton, NJ 07860

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Key Alumnus

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01984

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York, PA 17403

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DEGREES CONFERRED JANUARY 5, 1975

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Mark Webster Fuhrer, *English*
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Rex Patrick Hildebrand, *Psychology*

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Education
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Patricia Ann Pheasant

DEGREES CONFERRED MAY 18, 1975

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Leslie Anne Berger, *English*
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Marlene Joyce Camillo, *Psychology*
Anthony John Cek, *Psychology*
Lisa Virginia Chmura, *English*
Jeffrey Charles Compton, *Political Science*
Edward Robert Donnelly, *German*
Dixie Lee Drybread, *Political Science*
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Roberta Louise Eppley, *History*
Kim Edward Feinauer, *Philosophy*
John Guilio Fenimore, *English*
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Stephen Michael Fitzgerald, *History*
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Kevin James Hartnett, *Psychology*
Jayne Devine Holsinger, *Psychology*
William Ross Ingraham, *Religion*
Janet Marilyn Katz, *Psychology*
Christine Louise Kielb, *Psychology*
Janet Marie Kitzmiller, *English*
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Holly Celia Shirk, *English*
Elizabeth Langan Shivell, *History*
Irwin Henry Siegel, *English*
Lonna Marie Snavely, *English*
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- Cheryl Ann Otto, *Music Education*
- Cynthia Louise Pike, *Music Education*
- Carol Christine Potter, *Music Education*
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 Wendie Virginia Wood, *Biology*
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In Biology	Joan Lynette Walker
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In Chemistry	Cynthia Diane Penturelli
In Chemistry	Penelope Ann Siler
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In English	Holly Celia Shirk
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In Mathematics	Linda Maxine Long
In Mathematics	John Russell Longacre, Jr.
In Physics	Derek Lieber

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Conferred May 18, 1975

Pauline Frederick Robbins	<i>Doctor of Humane Letters</i>
Warren M. Robbins	<i>Doctor of Laws</i>
Laverne E. Rohrbaugh	<i>Doctor of Divinity</i>

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Senior Awards

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PI GAMMA MU SCHOLARSHIP AWARD

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Chester Quintin Mosteller, Spring City, Pa.

THE GOVERNOR JAMES H. DUFF AWARD

Robert Alan Boyer, Sunbury, Pa.

THE CHUCK MASTON MEMORIAL AWARD

Chester Quintin Mosteller, Spring City, Pa.

THE JOHN F. ZOLA ATHLETIC AWARD

Thomas Harold Sheaffer, Harrisburg, Pa.

THE SIGMA ALPHA IOTA HONOR CERTIFICATE AWARD

Carol Christine Potter, Pennsauken, N.J.

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Cynthia May Leeper, Miami, Fla.

Marcia Sue Smith, Millersville, Pa.

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Carol Christine Potter, Pennsauken, N.J.

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PUBLIC ACCOUNTANTS AWARD

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LA VIE COLLEGIENNE AWARD

Elizabeth Langan Shivell, Camp Hill, Pa.

WALL STREET JOURNAL AWARD

George Alvin Lyons, Wila, Pa.

PHI BETA KAPPA PRIZE

Kim Edward Feinauer, Reading, Pa.

Michael Dustin Rhoads, Harrisburg, Pa.

SENIOR PRIZE IN ENGLISH

Holly Celia Shirk, Milroy, Pa.

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Joan Lynette Walker, Newport, Pa.

WALLACE-LIGHT-WINGATE AWARD IN LIBERAL ARTS

Sally Ann Wiest, Harrisburg, Pa.

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ECONOMICS AND BUSINESS ADMINISTRATION

Thomas Clifford Dilworth, Greencastle, Pa.

John Francis Halbleib, Harrisburg, Pa.

John Russell Longacre, Jr., Broomall, Pa.

George Alvin Lyons, Wila, Pa.

Richard Joseph Newmaster, Jr., Lebanon, Pa.

Dennis James Weidman, Ephrata, Pa.

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NATIONAL ASSOCIATION OF ACCOUNTANTS AWARDS

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Robert Alan Boyer, Sunbury, Pa.

Kim Douglas Dahms, Temple, Pa.

Dale Herring Everhart, Harrisburg, Pa.

Nancy Elaine Fritz, Stilwater, Pa.

John Francis Halbleib, Harrisburg, Pa.

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Joel Howard Persing, Brogue, Pa.

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Michael Dustin Rhoads, Harrisburg, Pa.

Allen Ziegler Roth, Carlisle, Pa.

Stephan Ray Sanko, Manheim, Pa.

Holly Celia Shirk, Milroy, Pa.

Elizabeth Langan Shivell, Camp Hill, Pa.

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Paul Eugene Visneski, Tunkhannock, Pa.

Joan Lynette Walker, Newport, Pa.
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Walter William Wolf, Ephrata, Pa.

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Marian Jean Melenchick, Pottsville, Pa.
Ronald Oscar Schlee, Johnstown, Pa.

MAUD P. LAUGHLIN SOCIAL SCIENCE SCHOLARSHIP AWARD

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Laurel Sue Schwarz, South Plainfield, N.J.

JOHN F. ZOLA MEMORIAL SCHOLARSHIP AWARD

Gregory Allen Hilt, Wrightsville, Pa.

THE BIOLOGICAL SCHOLARSHIP AWARD

Theresa Veronica Brown, Harrisburg, Pa.
James Burgess Cooper, Warminster, Pa.

MEDICAL SCHOLARSHIP AWARD

Mary Susan Adler, Collegeville, Pa.

THE WOMAN'S CLUB OF LEBANON SCHOLARSHIP AWARD

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ALICE EVERS BURTNER MEMORIAL AWARD

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Cathy Ellen Freundel, Catonsville, Md.

SOPHOMORE ACHIEVEMENT AWARD IN CHEMISTRY

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PHYSICS ACHIEVEMENT AWARD

Dale Allen Miller, Annville, Pa.

THE MAX F. LEHMAN MEMORIAL MATHEMATICS PRIZE

Dale Allen Miller, Annville, Pa.

LA VIE COLLEGIENNE AWARD

Glenn Alan Zearfoss, Annville, Pa.

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Sharon Ann Hatfield, Pottstown, Pa.

MATHEMATICS ACHIEVEMENT AWARD

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PICKWELL MEMORIAL MUSIC AWARD

Stephen Warren Sachs, Chambersburg, Pa.

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SIGMA ALPHA IOTA SCHOLARSHIP AWARD

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AND BUSINESS ADMINISTRATION

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Gary Lee Kipp, Lancaster, Pa.

Lynn Louise Wenger, Quarryville, Pa.

Glenn Alan Zearfoss, Annville, Pa.

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Carolyn Robertson Reed, Fallston, Md.

BETA BETA BETA FRESHMAN ACHIEVEMENT AWARD IN BIOLOGY

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Catherine Irene Kaylor, Annville, Pa.
Deborah Lee Kost, Camp Springs, Md.

German: *Russell Paul Labe, Jr., Reading, Pa.*
Anne Auerbach, Essex Fells, N.J.
Brian Wayne Moody, Lebanon, Pa.
William Henderson Kelly, Jr., Chambersburg, Pa.

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Transcripts, Academic Reports	Assistant Dean of the College and Registrar

Address all mail to:

Lebanon Valley College
Annville, Pennsylvania 17003

Direct all telephone calls to:

Lebanon Valley College
Annville, Pennsylvania
Area Code 717 Local Number 867-4411

Regular office hours for transacting business:

College office hours are from 8:30 a.m. to 12:00 noon and 1:00 p.m. to 5:00 p.m. Monday through Friday. Members of the staff are available for interviews at other times if appointments are made in advance.

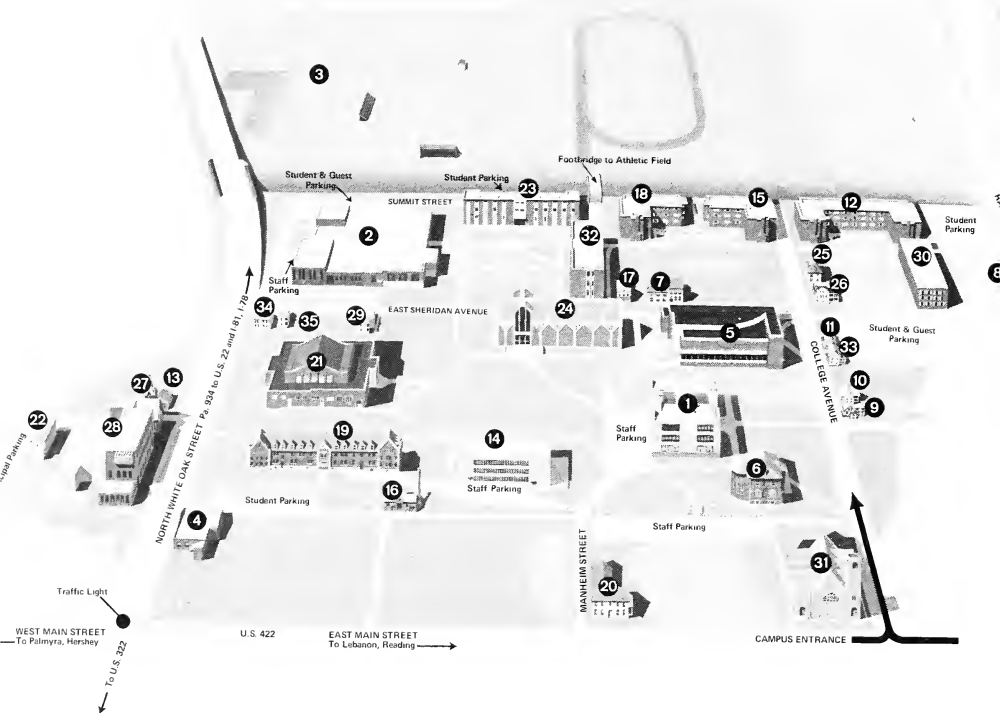
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130 College Ave. | 22 | Maintenance Building |
| 2 | Allan W. Mund
College Center | 12 | Funkhouser Hall | 23 | Mary Capp Green Hall |
| 3 | Arnold Field | 13 | Gladys M. Fencil
Building (Registrar) | 24 | Miller Chapel |
| 4 | Art Studio | 14 | Gossard Memorial
Library | 25 | North College |
| 5 | Blair Music Center | 15 | Hammond Hall | 26 | Saylor Hall |
| 6 | Carnegie Building
(Admissions Office) | 16 | Heating Plant | 27 | Science Annex |
| 7 | Centre Hall | 17 | Infirmary | 28 | Science Hall |
| 8 | East College | 18 | Keister Hall | 29 | Sheridan Hall |
| 9 | Faculty Offices,
104 College Ave. | 19 | Kreider Hall | 30 | Silver Hall |
| 10 | Faculty Offices,
112 College Ave. | 20 | Laughlin Hall | 31 | United Methodist Church |
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