

Digitized by the Internet Archive in 2011 with funding from LYRASIS Members and Sloan Foundation

TABLE OF CONTENTS

.

Profile of Lebanon Valley College
Mission of Lebanon Valley College
Undergraduate Information
Admissions
Continuing Education
Undergraduate Academic Regulations and Procedures
Degrees
Graduation Requirements
Nontraditional Credit
Grading System
Undergraduate Academic Programs
General Education
Cooperative Programs
Pre-professional Programs
Individualized Major
Internships
Independent Study
Tutorial Study
Special Topics Courses
Study Abroad
Undergraduate Departments
Graduate Academic Programs
Directory
Board of Trustees
Administration
Faculty
Support Staff
Awards
Accreditation
Campus Map
Index
Phone Numbers
2010–2011 Academic Calendar

LEBANON VALLEY COLLEGE

Founded: 1866, as a private coeducational institution on the site of the Annville Academy. Became a four-year institution by 1883 as the lower grades were phased out.

Curriculum: a four-year program of study in the liberal arts with an academic year comprised of fall and spring semesters and an optional summer term.

Degrees granted: Bachelor of Arts, Bachelor of Music, Bachelor of Science, Bachelor of Science in Chemistry, Bachelor of Science in Medical Technology, Associate of Arts, Associate of Science, Master of Business Administration, Master of Music Education, Master of Science Education, Doctor of Physical Therapy.

Major fields of study: accounting, actuarial science, American studies, art and art history, biochemistry and molecular biology, biology, business administration, chemistry, computer science, digital communications, criminal justice, economics, early childhood education, English, French, German, health-care management, health science, historical communications, history, international studies, mathematics, medical technology, music, music business, music education, music recording technology, philosophy, physical therapy, physics, political science, psychobiology, psychology, religion, sociology, Spanish, special education.

Special programs: secondary education certification; *in cooperation with The Penn-sylvania State University and Case Western Reserve University:* engineering; *in cooperation with approved hospitals:* medical technology.

Special options: departmental honors, double majors, independent study, individualized majors, internships, tutorial study, study abroad, Philadelphia and Washington semester programs.

Number of full time faculty: 100; of the permanent faculty, 88 percent have earned a Ph.D. or equivalent terminal degree.

Student-faculty ratio (FTE): 13:1, with an average class size of 20.

Location: Annville, founded in 1799, is a small town of approximately 5,000 people located in south central Pennsylvania. Driving times: Hershey, 10 minutes; Harrisburg, 1/2 hour; Baltimore, 2 hours; Philadelphia, 2 hours; New York, 3 hours; Washington, D.C., 3 hours.

Size of campus: 46 buildings. The library contains over 230,000 catalog items.

Residence halls: 29 residential facilities housing 1,292 students in male, female, coed, suite and apartment-style facilities.

Student enrollment: 1,582 full-time undergraduate students, with 165 part-time undergraduates and 298 graduate students.

Student financial aid: approximately 95 percent of full-time students receive financial aid in the form of LVC grants and academic scholarships. In 2009–2010, these awards totaled \$20,849,723 with the average per student totaling \$13,565.

THE MISSION OF THE COLLEGE

Lebanon Valley is a small, private, liberal arts college. Its mission arises directly from its historical traditions and a relationship with the United Methodist Church.

The College's aim is to enable our students to become people of broad vision, capable of making informed decisions, and prepared for a life of service to others. To that end, we seek to provide an education that helps students acquire the knowledge, skills, attitudes and values necessary to live and work in a changing, diverse and fragile world.

Through both curricular and co-curricular activities, we endeavor to acquaint our students with humanity's most significant ideas and accomplishments, to develop their abilities to think logically and communicate clearly, to give them practice in precise analysis and effective performance, and to enhance their sensitivity to and appreciation of differences among human beings.

Lebanon Valley College aspires to pursue this mission within a community in which caring and concern for others is a core value. We value strong and nurturing faculty interacting closely with students; encourage individual student development; and affirm the interrelatedness of liberal learning and the ideal of vocation. We regard the cultivation of wisdom that is the capacity of judging rightly in matters of life and conduct, and a lifelong love of learning as the ultimate reward of the educational experience.

The College motto is, "You shall know the truth and the truth shall set you free." (John 8:32)



UNDERGRADUATE INFORMATION

Admission for Full-time Students

High School Preparation

All admission candidates should have completed 16 credit units in a college preparatory program and graduated from an accredited secondary school, or present an equivalency certificate (G.E.D.). Of the 16 units, 4 should be in English, 2 in foreign language, 3 in mathematics, 3 in science, and 3 in social studies.

Application Procedure

A candidate for admission to Lebanon Valley College must submit a completed application with the application fee and an official transcript of high school grades. Submission of S.A.T. or A.C.T. results is optional. Students wishing to transfer to Lebanon Valley must submit official transcripts of completed postsecondary work and a College Record Form for each institution attended, in addition to a final high school transcript.

Candidates are encouraged to visit campus for a personal interview. Applicants for admission to certain academic programs (music and physical therapy majors) are required to undergo additional steps. Students are encouraged to view additional details and use the on-line application documents located at the Full-time Admission link on our home-page, www.lvc.edu. For further information, contact:

Admission Office

Lebanon Valley College 101 North College Avenue Annville, PA 17003–1400 Phone: 717-867-6181 or 1-866-LVC-4ADM FAX: 717-867-6026 Internet: http://www.lvc.edu E-mail: admission@lvc.edu

Student Finances

Payment for tuition, room, board and other charges is due by a published deadline prior to the beginning of each semester. Students failing to meet this deadline will be required to make special arrangements with the Business Office before their course registrations will be processed. Questions about charges and payments should be addressed to the Business Office.

Refund Policy for Full-time Students

Treatment of Title IV (Federal) Aid When a Student Withdraws

Lebanon Valley College is required by federal statute to determine how much financial aid was earned by students who withdraw, drop out, are dismissed, or take a leave of absence prior to completing 60 percent of a payment period or term. The Title IV programs that are covered by this statute are: Federal Subsidized and Unsubsidized Stafford Loans, Federal Perkins Loans, Federal PLUS Loans, Federal Pell Grants, Academic Competitiveness Grants, National Smart Grants, Federal Supplemental Educational Opportunity Grants (FSEOGs), Federal TEACH Grants, and in some cases, certain state grant aid to students.



For a student who withdraws after the 60 percent point-in-time, there are no unearned funds. However, a school must still complete a return calculation in order to determine whether the student is eligible for a post-withdrawal disbursement. The calculation is based on the percentage of earned aid using the following Federal Return of Title IV funds formula:

Percentage of payment period or term completed = the number of days completed up to the withdrawal date divided by the total days in the term. (Any break of five days or more is not counted as part of the days in the term.) This percentage is also the percentage of earned aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula:

Aid to be returned = $(100 \text{ percent of the aid that could be disbursed minus the percentage of earned aid) multiplied by the total amount of aid that could have been disbursed during the payment period or term.$

If a student earned less aid than was disbursed, the institution would be required to return a portion of the funds and the student would be required to return a portion of the funds. Keep in mind that when Title IV funds are returned, the student borrower may owe a debit balance to the institution. If a student earned more aid than was disbursed to him/her, the institution would owe the student a post-withdrawal disbursement which must be paid within 120 days of the student's withdrawal. The institution must return the amount of Title IV funds for which it is responsible no later than 45 days after the date of the determination of the date of the student's withdrawal.

Refunds are allocated in the following order:

- Unsubsidized Federal Stafford Loans
- Subsidized Federal Stafford Loans
- Federal Perkins Loans
- Federal Parent (PLUS) Loans
- Federal Pell Grants for which a Return of funds is required

- Academic Competitiveness Grants for which a return of funds is required.
- National Smart Grants for which a return of funds is required.
- Federal Supplemental Opportunity Grants for which a return of funds is required.
- Federal TEACH Grants for which a return of funds is required.

There are some Title IV funds that you were scheduled to receive that you cannot earn once you withdraw because of other eligibility requirements. For example, if you are a first-time, first-year undergraduate student and you have not completed the first two weeks of your program before you withdraw, you will not earn any Stafford Loan funds that you would have received had you remained enrolled past the second week. If you receive (or Lebanon Valley College or your parent receive on your behalf) excess Title IV program funds that must be returned, Lebanon Valley College must return a portion of the excess equal to the lesser of: 1) your institutional charges multiplied by the unearned percentage of your funds, or 2) the entire amount of excess funds.

The school must return this amount even if it didn't keep this amount of your Title IV program funds. If Lebanon Valley College is not required to return all of the excess funds, you must return the remaining amount. Any loan funds that you must return, you (or your parent for a PLUS Loan) repay in accordance with the terms of the promissory note. That is, you make scheduled payments to the holder of the loan over a period of time.

Any amount of unearned grant funds that you must return is called an overpayment. The amount of a grant overpayment that you must repay is half of the unearned amount. You must make arrangements with Lebanon Valley College or the Pennsylvania Department of Education to return the unearned grant funds.

NOTE: The federal government requires that all full-time students make satisfactory academic progress toward a degree or certificate. Please visit http://www.lvc.edu/financial-aid/ to view the Academic Progress Policy and Requirements.

Treatment of Non-Title IV Aid When a Student Withdraws

Lebanon Valley College follows guidelines for Title IV programs (see above) when calculating the amount of institutional and/or state aid and/or private loans/scholarships that you have earned up to the point of withdrawal. Types of aid covered by this policy include, but are not limited to: Presidential Scholarships (such as Vickroy, Leadership and Achievement Awards), LVC Grant-In-Aid, institutional scholarships, PHEAA State Grant, and/or any other state administered grant funds.

When you withdraw during your period of enrollment the amount of non-Title IV assistance that you have earned up to that point is determined by the same specific formula used to calculate Title IV funds earned, If you receive more assistance than you earned, the excess funds must be returned by Lebanon Valley College and/or you.

Once you have completed more than 60 percent of the period of enrollment, you earn all the assistance that you were scheduled to receive for that period.

Treatment of Institutional Charges When a Student Withdraws

Lebanon Valley College follows guidelines for Title IV programs (above) when calculating the amount of unearned institutional charges to be refunded. Charges eligible for refund are tuition, room, board, private music lessons and overload charges. Once you have completed 60 percent of the period of enrollment, you have earned all of the charges billed for that period.

Refund Policy for Part-time Students

Part-time students should consult the refund schedule published by the Continuing Education Office. However, part-time students receiving federal financial assistance (Title IV) will receive a refund according to federal policy as noted above.

Alternative Payment Plan

Lebanon Valley College offers a payment plan for those families who, after exploring other options, prefer to spread payments over a 10-month period. An agent has been appointed to process deferred payment applications:

Higher Education Services

4720 Carlisle Pike Mechanicsburg, PA 17050 Phone: 1-800-422-0010

Continuing Education

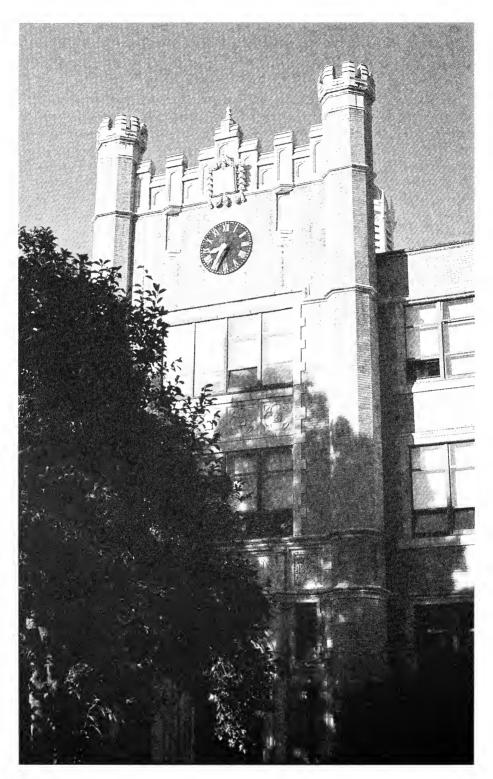
Students may enroll part time for undergraduate study at Lebanon Valley College through the Office of Graduate Studies and Continuing Education. Students are considered part time if they are enrolled in 1–11 credit hours per semester.

Continuing Education offers credit programs on four levels: certificate, associate, baccalaureate and advanced professional certificates. Certificates are starter programs that approximate the beginning of a four-year college experience, ideal springboards from which to go on for an associate's or bachelor's degree. Advanced professional certificate programs are intended for persons who have already been awarded a bachelor's degree in one discipline and desire to study another discipline in some depth.

A second bachelor's degree may be awarded to adult students who already have received a bachelor of arts or science from Lebanon Valley or another regionally accredited college or university. In such cases, students must only complete the major requirements for the second degree or a minimum of 30 credits, whichever is greater.

Part-time students enrolled through Continuing Education may register for courses offered during the day, evening, Saturday and summer sessions on the main campus in Annville. To obtain copies of course schedules or to get detailed information on all academic programs for part-time students, call 717-867-6213 or toll free at 1-877-877-0423 or write the Office of Graduate Studies and Continuing Education, Lebanon Valley College, Annville, PA 17003–1400. Information is also available through the LVC website: www.lvc.edu/ce.

A candidate for admission to any of Lebanon Valley College's Continuing Education certificate or degree programs must submit a completed application form with the required application fee. An official high school transcript is required if students have fewer than 24 semester hours of transferable college credits. Students planning to transfer to Lebanon Valley must submit official transcripts of all completed college or university courses. Official transfer credit. Although candidates may begin taking classes before they have been accepted, they must speak with an advisor before registering for courses. To arrange an admission interview with an advisor, call 717-867-6213 in Annville or toll free at 1-877-877-0423. Decisions on all part-time student applications usually are made within one month after the last required transcript is received.



2010-2011 Catalog

UNDERGRADUATE ACADEMIC REGULATIONS AND PROCEDURES

Attendance at Lebanon Valley College is a privilege, not a right. To provide the necessary atmosphere in which teaching and learning can occur, the College expects that the conduct of all campus citizens will conform to accepted standards. The College has the right to require the withdrawal of any student whose actions are inimical to the purposes of the institution. The following academic regulations are announcements and do not constitute a contract between the student and the College. The College reserves the right to change these regulations and procedures as it deems necessary for the accomplishment of its purposes, but wherever possible, a student will proceed to graduation under the regulations in effect at the time of his or her entrance at the College.

Degrees

Baccalaureate Degrees

Lebanon Valley College confers five baccalaureate degrees. Bachelor of Arts for students completing requirements in the following major programs: American studies, art and art history, criminal justice, economics, English, French, German, historical communications, history, international studies, music, music business, philosophy, political science, religion, sociology, Spanish and certain individualized majors.

Bachelor of Science for students completing requirements in the following major programs: accounting, actuarial science, biochemistry and molecular biology, biology, business administration, chemistry, computer science, cooperative engineering, cooperative forestry, digital communications, early childhood education, elementary education, health-care management, health science, mathematics, music education, physics, psychobiology, psychology and certain individualized majors. Bachelor of Science in Chemistry, Bachelor of Science in Medical Technology, and Bachelor of Music: Emphasis in Music Recording Technology for students completing requirements for the appropriate major program.

Associate Degrees

An Associate degree may be earned by students who have been admitted through the office of Graduate Studies and Continuing Education and who have pursued the degree through part-time study. Students may earn an Associate of Science degree in accounting, general studies and business administration or an Associate of Arts degree in general studies.

Privacy of Student Records

The Family Educational Rights and Privacy Act of 1974 (FERPA), also known as the Buckley Amendment, helps protect the privacy of student records. The Act provides for the right to inspect and review educational records, to seek to amend those records, and to limit disclosure of information from the records. The Act applies to all institutions that are the recipients of federal funding.

Annually, Lebanon Valley College informs students of the Family Educational Rights and Privacy Act of 1974, as amended. This Act, with which the institution intends to comply fully, was designated to protect the privacy of education records, to establish the right of students to inspect and review their education records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings.

Students also have the right to file complaints with the FERPA office concerning alleged failures by the institution to comply with the act.

Local policy explains in detail the procedures to be used by the institution for compliance with the provisions of the Act. Copies of the policy can be found in the following offices: Office of the Registrar, Office of Student Services, and Office of the Dean of the Faculty. The policy is also printed in the Faculty Advising Handbook. The offices mentioned also maintain a Directory of Records that lists all education records maintained on students by this institution.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the Registrar's Office.

Credit Hours

A credit hour is the unit to measure academic progress. Each course has a credit designation approximately equal to the number of hours to be spent in class each week. A course requiring three hours of class attendance each week will carry 3 credit hours. Credit for laboratories is generally awarded at one half the regular rate.

Application for Graduation

As a student nears completion of the degree requirements, the student must file an application for the degree and a graduation plan with the Registrar's Office. Graduation application deadlines and the semester Course List and Registration Schedule are available in that office. This application process provides the student with a timely opportunity to review his or her degree requirements and to plan or change the student's course schedule to ensure completion of all requirements.

The student must complete an Application for the Degree and a Graduation Plan, meet with his or her advisor, obtain all required signatures for graduation, including major and minor requirements, and deliver the forms to the Registrar's Office in the Humanities Building.

Graduation Requirements

Candidates for a baccalaureate degree shall complete successfully 120 credit hours, including the requirements for the general education program (see page 23) and the requirements for majors and minors as appropriate. Credit hours are accumulated in three separate categories: general education requirements, major requirements, and electives.

The general education program is that part of the curriculum shared by all students in all majors. The required courses reflect 54-56 credit hours. The major programs each require at least 30 credit hours of course work. Electives are those courses selected by the student that reflect neither major nor general education requirements.

Candidates for the bachelor's degree must also take in residence 30 credit hours of the 36 taken immediately prior to graduation. Course work taken in all of the College's programs qualifies as work done in residence.

Candidates for an associate's degree must accumulate at least 60 credit hours including the course work appropriate to their major program. Fifteen of the last 18 credit hours toward the degree must be taken in residence. Coursework taken in all of the College's programs qualifies as work done in residence.

10 Undergraduate Academic Regulations

2010-2011 Catalog

Candidates for a degree must obtain a cumulative grade point average of at least 2.00 and a major grade point average of at least 2.00. Additional majors and any minors also require a 2.00 grade point average.

Students who have 11 or fewer credits remaining to complete the degree may participate in the graduation ceremony.

Advising Program

Each student has a faculty advisor whose role is to counsel about registration procedures, course selections, academic requirements, and regulations. The student is strongly encouraged to obtain the advisor's counsel and approval before registration, withdrawal, election of pass/fail option, and/or change in credit/audit status.

Arrangement of Schedules

Each student arranges a semester program of courses in consultation with his or her faculty advisor. Students already in attendance do this during registration periods. New students accomplish this on orientation days.

Limit of Hours

To be classified as full time, a student must take at least 12 credit hours in a semester. Seventeen credit hours is the maximum permitted without approval from the student's advisor and permission of the registrar. To be permitted to take more than 17 credits, the student should have a cumulative grade point average of 3.0 or higher, or be a senior. Audited courses are counted in determining the course load, but music organizations are not. Students shall pay the prevailing tuition rate for each credit hour beyond 17 (not counting music organizations).

Class Standing

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

Satisfactory Academic Progress

Satisfactory academic progress toward a degree as a full-time student is defined as completion of 24 or more credits per academic year while maintaining a cumulative grade point average of 1.6 (1–27 credits), 1.7 (28–55 credits), 1.8 (56–83 credits), 1.9 (84 or more). A 2.0 grade point average is required for completion of the baccalaureate degree. It is also necessary for full-time students to complete at least 24 credits per academic year in order to maintain eligibility for federal, state and institutional financial aid.

Transfer Credit

A student applying for advanced standing after having attended another accredited institution shall send an official transcript to the admission office. If requested, the student must provide copies of the appropriate catalogs for the years of attendance at the other institution or institutions.

Credits are accepted for transfer provided the grades are C-(1.67) or better, the work is equivalent or similar to work offered at Lebanon Valley College, and the insti-

tution is regionally accredited. Grades thus transferred count for credit hours only, not for quality points.

A candidate for admission holding an associate degree from a regionally accredited college can be admitted with full acceptance of course work at the previously attended institution. However, course work in the major field for which the applicant has received a D shall not be counted toward fulfilling the major requirement.

Because Lebanon Valley College is a liberal arts institution, consideration of full acceptance of the associate degree will be granted with the understanding that the candidate has followed a basic course of study compatible with the curriculum and academic programs of the College and has been enrolled in a transfer program. A total of 60 credits will be accepted for an associate degree and 57 credits for a diploma program. A maximum of 90 credit hours will be accepted toward a baccalaureate degree.

In most instances the applicant may be expected to complete the baccalaureate degree within two years. However, when the requirements of a particular major field or the nature of the previous study demand additional work beyond two years, the applicant will normally be notified at the time of admission.

Students transferring to Lebanon Valley College in order to complete work on a baccalaureate degree will normally be expected to pass at least one 3-hour course in their intended major for each semester they spend at the college. "Semester" shall normally be defined as 15 credit hours. Beyond this minimum requirement, departments may require additional courses if they so desire.

Lebanon Valley College students enrolled for a degree may not carry courses concurrently at any other institution without prior consent of their advisors and the registrar. Students who desire to study away from campus for summer study must obtain prior approval from their advisors and the registrar.

Discontinuance of Courses

The College reserves the right to withdraw or discontinue any course.

Registration and Preregistration

Students are required to register for courses on designated days of each semester. Preference is given to upper-class students in the preregistration process to ensure registration in courses required for their major fields of study. Students desiring to register later than one week after the opening of the semester will be admitted only by special permission of the instructor and the registrar.

On entering Lebanon Valley College, students indicate that they are open or that they have a particular intended major. Students may make a formal declaration of major during the second semester of their freshman year and must make a formal declaration by the time they have completed 60 credit hours.

Change of Registration

Change of registration, including pass/fail elections, changes of course hours credit, changes from credit to audit and vice versa, must be approved by signature of the advisor. In most instances, registration for a course shall not be permitted after the course has been in session for one full week. With the permission of the advisor, a student may withdraw from a course during the first 10 weeks of the semester. However, first-time, first-semester freshmen may withdraw from a course at any time through the last day

of semester classes with permission of the advisor. A fee is charged for every course added at the student's request after the publicized Add/Drop Period (the first full week of classes).

Students who drop below full-time status (below 12 credits) during the Add/Drop Period will be re-billed as part-time students. Resident students who drop to part-time *must* have the permission of the dean of students. Other considerations regarding financial aid, academic progress, and health insurance must be made before dropping to part-time status.

Students who drop courses after the publicized Add/Drop Period will not have their status changed to part-time. However, consideration must be given to academic progress and future eligibility for financial aid and scholarship monies.

Students enrolled in courses meeting during the summer or for an abbreviated period during fall and spring semesters may drop a course before the second class meeting. Thereafter, students may withdraw from a course up to the first two-thirds of the course.

Auditing Courses

Students may register to audit courses with the approval of their academic advisor. Audited courses are counted in considering the course load relative to the limit of hours and may result in an overload charge. No grade or credit is given for an audited course, but the registrar will record the audit on the transcript if the student attends regularly. A change of registration from credit to audit or from audit to credit, with the approval of the instructor, must be accomplished by the end of the tenth week of semester classes.

Pass/Fail

After attaining sophomore standing (28 credit hours), a student may elect to take up to two courses per semester and one per summer session on a pass/fail basis; however, only six such courses can be counted toward graduation requirements. No courses elected by students to be taken pass/fail may be used to meet the requirements of the general education program or other programs, the major(s), the minor(s) or secondary education certification. A student may select or cancel a pass/fail registration any time during the first 10 weeks of a semester, or up to the first two-thirds of a course meeting during the summer or for an abbreviated period during fall and spring semesters. Passing with honors will be designated by the grade PH indicating that a grade of B+ or higher was earned. If a student does not pass the course, the student will receive an F on the transcript. See page 18 for grading systems.

Repetition of Courses

A student may repeat as often as desired, for a higher grade, a previously taken course, subject to the following provisions: the course must have been taken in courses staffed by the College, the course has to be retaken at Lebanon Valley College, and the semester credit hours are given only one time. The higher grade received each time taken is computed in the cumulative grade point average. Each semester grade report will show hours credit each time passed, but the total hours toward a degree will be equal only to the semester hours credit for the course. For a course previously passed P/F, the grade received in the subsequent registration for regular grade is the "higher grade." Each grade received remains on the permanent record and a notation is made thereon that the course has been repeated.

Concurrent Courses

A student enrolled for a degree at Lebanon Valley College may not carry courses concurrently at any other institution without prior consent of his or her advisor and the registrar.

External Summer Courses

A student registered at Lebanon Valley College may not obtain credit for the courses taken during the summer at another college unless such courses have prior approval of his or her advisor and the registrar.

Attendance Policy

Each student is responsible for knowing and meeting all requirements for each course, including regular class attendance. At the opening of each semester, the instructors shall clearly inform students of class attendance regulations. Violations of those regulations shall make the student liable to receive a grade of F in the course.

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

In-Absentia

The College treats students in domestic or foreign study programs as students-inabsentia. Any student who studies for a semester or academic year at another institution with the intent of returning to the College is considered a matriculated student. A student desiring in-absentia status should complete the form in the registrar's office and secure the approval of the advisor, the registrar and the director of study abroad and domestic programs. Students will receive information on registration and room sign-up after they notify the registrar of their address abroad or in the United States.

Leave of Absence

For reasons of health or other compelling circumstances, students may request a voluntary leave from the College for one or two semesters. A student desiring such a leave should complete the form available from the registrar's office and secure the approval of the associate dean of the faculty. Students on leave are regarded as continuing students and retain their status for registration and room sign-up, if available. Students on leave will receive information on those procedures and will be asked to verify their return. The College reserves the right to require a leave of absence for medical reasons at any time it is deemed reasonably necessary to protect the student, other students, members of the College community, or the interests of the College itself. Before a student returns from a medical leave of absence, a clearance interview with one of the counseling psychologists, the dean of students, or the associate dean of the faculty as well as additional documentation—may be required.

Withdrawal from College and Readmission

To withdraw from the College, a student must complete an official withdrawal form obtained from the registrar's office. Continuing education students must complete an official withdrawal form obtained from the office of continuing education. Readmission of a student requires written permission from the associate dean of the faculty.

Second Bachelor's Degrees

A person who has earned a bachelor's degree from Lebanon Valley College or another accredited college or university may earn a second bachelor's degree by meeting the following requirements:

- 1. A minimum of 30 additional undergraduate credits must be completed successfully at Lebanon Valley.
- 2. All graduation requirements for the major of the second degree must be met satisfactorily.
- 3. Course work completed successfully as part of the first degree program may be used to satisfy the graduation requirements of the second major
- 4. No course already taken in the first degree program may be repeated in the second degree program.
- 5. No more than three credits from student teaching (SED 440, ECE 440, ELM 440 and MED 441) may be counted toward a second degree.
- 6. Graduates from other accredited colleges or universities shall not be required to meet any general education requirements of Lebanon Valley College.
- 7. No courses in the second degree program may be met satisfactorily through such non-traditional means as challenge examinations, CLEP, or credit for life experience.
- 8. No more than three credits from internships may be counted toward a second degree.
- 9. No courses in the second degree program may be taken pass/fail.

NOTE: Students carrying a second major do not automatically receive a second degree. Student carrying a second major will not receive a second degree without having met all the requirements listed above for a second bachelor's degree.

Undergraduate Nontraditional Credit

Lebanon Valley College recognizes the ability of highly motivated students to master specific areas of study on their own initiative and provides programs to allow these students the opportunity to gain credit. Except for those seeking a second bachelor's degree, any matriculated student may earn a maximum of 30 credits toward a bachelor's degree or a maximum of 15 credits toward an associate's degree through nontraditional means (challenge exams, advanced placement, CLEP, and credit for life experience). All nontraditional means of examination are graded satisfactory (S) or unsatisfactory (U). An unsatisfactory grade on any nontraditional examination will not be recorded on the permanent record.

Challenge Exam Policy

Many LVC courses can be challenged for credit by examination. Full-time students should request challenge examinations through their academic advisors. Part-time students and those students enrolled through continuing education should make application for challenge exams through the continuing education office. All requests must be approved by the registrar and the chairperson of the department in which the course is listed.

Challenge exams are considered comprehensive examinations in the subject area. The grading criteria for challenge exams will be determined by each department. The exact nature of the examination will be determined by the faculty member and chairperson of the department involved and may include any means of evaluation normally employed by the department. There is a fee for preparation and grading of each challenge exam, and it is charged without regard to the test results.

Challenge exams may not be taken by students who have received any grade in a course equivalent to or more advanced than the course for which the student is requesting credit by examination. Challenge exams may not be used for the purpose of acquiring credit for a course previously failed. Practicums, internships, seminars, research courses, independent study, writing-intensive courses, and courses with laboratory components are normally not subject to credit by examination. Individual departments may have additional criteria regarding challenge exams. Consult the chairperson of the department in which the course is listed for specific information.

Advanced Placement Policy

Advanced placement with credit in appropriate courses will be granted to entering students who make scores of 4 or 5 on College Board Advanced Placement examinations. The official Advanced Placement *College Grade Report* must be submitted by the student for evaluation by the registrar.

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 appropriate by the registrar and by the chairperson of the department.

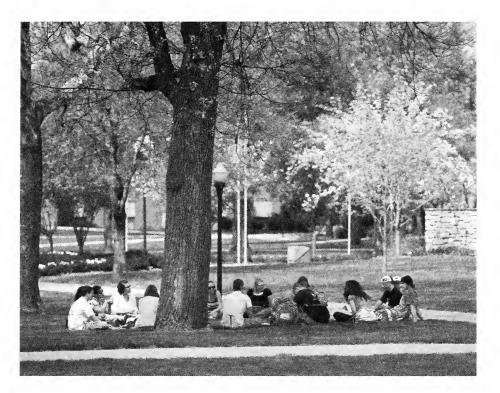
CLEP (College Level Examination Program) Policy

Credit shall be granted to those students who score well on CLEP examinations that are approved by the College. To receive credit, a student must score above the 50th percentile on the objective section and above a C, as determined by the appropriate academic department for general and subject examinations. The English composition essay is required to receive credit for English Communications with a minimum score of 64 and at the 80th percentile for this CLEP examination. Credit for foreign language at the intermediate level requires a minimum score of 62 (for French), 63 (for German), and 66 (for Spanish) on Level 2 tests.

A maximum of six credits shall be awarded for each examination; of these credits, only three may be applied to the general education requirements in the appropriate area. Credit shall be granted only to students who have matriculated at Lebanon Valley College. Normally, requests for CLEP credit must be approved by the registrar before the student has completed 30 credits.

Credit for Life Experience Policy

Lebanon Valley College provides for the awarding of undergraduate academic credit for knowledge acquired through nonacademic experience in subjects in the College curriculum. The experience should have a direct relation to the material taught in a course in the College curriculum and should extend over a sufficient period to provide substantive knowledge in the relevant area. Matriculated students who believe they qualify for such credit may petition the appropriate department through their academic advisors. Students enrolled in the continuing education program must petition through



the continuing education office. This petition must:

- (1) detail the relevant experience in question
- (2) provide appropriate supporting evidence
- (3) note the equivalent College course by department and number
- (4) state the number of credit hours sought.

The appropriate department will consult with the academic advisor or the continuing education office to determine the best means (interview, examination, portfolio, etc.) for evaluating the experience.

Approval of experiential credit for full-time students must be made in writing over the signatures of the academic advisor, the appropriate department chair, and the associate dean of the faculty. Approval of experiential credit for students enrolled through the continuing education program must be made in writing over the signatures of the director of graduate studies and continuing education, the appropriate department chair, and the associate dean of the faculty.

Experiential credit cannot exceed 6 credit hours in one academic year and cannot exceed a maximum of 12 credit hours in the degree program.

International Baccalaureate Program

Credit for appropriate courses will be granted to entering students who achieve scores of 5, 6 or 7 on International Baccalaureate individual subject examinations. The official International Baccalaureate transcript must be presented by the student for evaluation by the registrar.

Grading Systems and Grade Point Averages

Student work is graded A (excellent), B (good), C (satisfactory), D (requirements and standards met a minimum level), F (course requirements not met). For each credit hour in a course, students receive the following quality points:

А	4.00	С	2.00
A-	3.67	C-	1.67
B+	3.33	D+	1.33
В	3.00	D	1.00
B	2.67	D	.67
C+	2.33	F	.00

F carries no credit or quality points, but grades of F are used in calculating the grade point averages. The cumulative grade point average is calculated by dividing the quality points by the credit hours completed.

Candidates for a degree must obtain a cumulative grade point average of 2.00 and a major grade point average of 2.00. Additional majors and any minors also require a 2.00 grade point average.

A student may not take a course that has a prerequisite course he or she has failed.

In addition to the above grades, the symbols I, IP, and W are used. I indicates that the work is incomplete (certain required work postponed by the student for substantial reason with the prior consent of the instructor) but otherwise satisfactory. This work must be completed within the first four weeks of the end of the course or the I will be converted to an F. Instructors may set an earlier deadline. Appeals for an extension of the incomplete grade past the four-week period must be approved by the instructor and presented to the registrar prior to the incomplete due date. IP (in progress) is a temporary grade for certain courses that have not concluded by the end of the semester. W indicates withdrawal from a course through the tenth week of semester classes (or up to the first two-thirds of course meeting during the summer or for an abbreviated period during fall and spring semesters), except for first-semester freshmen who may withdraw through the last day of the semester.

Once a grade has been recorded it may not be changed without the approval of the instructor and the registrar. Students who feel the grade may be inaccurate should contact the instructor at once, but in no case later than the end of the semester following the course in question.

Academic and Graduation Honors

The Dean's List

Students achieving a 3.40 or higher grade point average while carrying at least 12 credit hours for grade shall be named to the Dean's List at the end of each semester.

Graduation Honors

After completing a minimum of 60 calculated credit hours of residence work, a student may qualify for graduation honors. The honors to be conferred are summa cum laude for grade point averages of 3.75-4.0, magna cum laude for grade point averages of 3.60-3.74, and cum laude for grade point averages of 3.40-3.59.

Departmental Honors

All major programs provide the opportunity for departmental honors work during the junior and senior years. For specific information, interested students should contact the appropriate department chairperson. The minimal requirements for departmental honors are a cumulative GPA of at least 3.0, both at the time of application and at the time of graduation; a written thesis; an oral presentation; and approval by a majority vote of the full-time members of the department. This project is undertaken on a subject of the student's own choosing under the supervision of a faculty advisor. Opportunity also exists to do creative work. A maximum of 9 hours credit may be earned in departmental honors.

Phi Alpha Epsilon

Phi Alpha Epsilon (the Greek initial letters of the words, "lover of learning and finder of truth") was established in 1935 and recognizes academic achievement and service to others. To be eligible for his award, students must achieve a cumulative grade-point average of at least 3.60, complete at least 24 credits of general education coursework at LVC, and achieve the "bronze" level of service hours (as determined by the Office of Spiritual Life) at the conclusion of the fall semester prior to graduation. Ordinarily, seniors are formally welcomed into the society at a spring banquet.

Academic Honesty

Lebanon Valley College expects its students to uphold the principles of academic honesty. Violations of these principles will not be tolerated. Students shall neither hinder nor unfairly assist the efforts of other students to complete their work. All individual work that a student produces and submits as a course assignment must be the student's own.

Cheating and plagiarism are acts of academic dishonesty. Cheating is an act that deceives or defrauds. It includes, but is not limited to, looking at another's exam or quiz, using unauthorized materials during an exam or quiz, colluding on assignments without the permission or knowledge of the instructor, and furnishing false information for the purpose of receiving special consideration, such as postponement of an exam, essay, quiz, or deadline of an oral presentation.

Plagiarism is the act of submitting as one's own the work (the words, ideas, images, or compositions) of another person or persons without accurate attribution. Plagiarism can manifest itself in various ways: it can arise from sloppy, inaccurate note-taking; it can emerge as the incomplete or incompetent citation of resources; it can take the form of the wholesale submission of another person's work as one's own, whether from an online, oral or printed source. The seriousness of an instance of plagiarism—its moral character as an act of academic dishonesty—normally depends upon the extent to which a student intends to deceive and mislead the reader as to the authorship of the work in question. Initially, the instructor will make this determination.

Once academically dishonest work has been submitted, the instructor shall report the suspected incidence to the associate dean of the faculty. At the moment the work has been submitted, the student involved forfeits the right to withdraw from the course or to change his or her course status in any way. The College's expectations and the measures it will apply to support and enforce those expectations are outlined below.

For the first offense of academic dishonesty, the faculty member has the option of

implementing whatever grade-related penalty he or she deems appropriate, up to and including failure in the course. The associate dean of the faculty shall send the student a letter of warning, explaining the policy regarding further offenses and the appeal process.

For the second formally established offense of academic dishonesty, failure in the course is mandatory; the associate dean of the faculty shall so inform the faculty member(s) involved. Additionally, the associate dean of the faculty has the authority to take further action against the student, up to and including expulsion from the College.

For the third formally established offense of academic dishonesty, failure in the course and expulsion from the College are mandatory.

The associate dean of the faculty has the authority to determine whether actions or reasonable suspicions of actions by a student constitute "offenses of academic dishonesty" as described above.

Information related to offenses of academic dishonesty must be passed by the faculty member to the associate dean of the faculty who shall retain the information for as long as the student involved is enrolled at the College. Information and evidence concerning academic dishonesty are the property of the College. Once the student has graduated from the College, the associate dean of the faculty will destroy these records.

All actions against a student for academic dishonesty may be appealed by the student being accused. A written appeal must be presented to the associate dean of the faculty no later than the official date that mid-term grades are due the semester following the semester in which the action was taken against the student. The dean of the faculty will serve as final arbiter.

Academic Probation and Suspension

At the conclusion of each semester, the Dean's Academic Advisory Council meets to review the academic performance of all undergraduate students. The members of the council are the vice president for academic affairs and dean of the faculty, the vice president for student affairs, the dean of student affairs, the associate dean for academic affairs, the assistant dean for academic advising and student success, and the registrar.

To maintain themselves in good academic standing at the College, students must achieve minimum cumulative grade point averages appropriate to progress toward their degree, and they must complete coursework at a regular and sustained pace. Minimum cumulative GPAs are as follows:

At the conclusion of each semester, the College examines students' academic records. Students who have not achieved the above minimum grade point averages will be given an **Academic Warning**, placed on **Probation**, or **Academically Suspended** from the College.

Academic Warning. The first time students fall below the required cumulative GPA as listed above, they will be given Academic Warning. Academic Warning constitutes a formal notification that a student's academic performance is weak and that he or she

Required Cumulative GPA

needs to devote increased attention to academic work. Students receiving Academic Warning are cautioned that unless they achieve an acceptable cumulative grade point average, they will be placed on Probation and thereby lose the privilege of participating in extracurricular activities (including such activities as intercollegiate sports, student government, campus media, student clubs, and Greek and service organizations).

Probation. Students who fall a second time below the required cumulative GPA (whether in consecutive or nonconsecutive semesters) will be placed on Probation. A student on Probation will not be permitted to take part in extracurricular activities.

Final Probation. Students who fall a third time below the required cumulative GPA (whether in consecutive or nonconsecutive semesters) will be placed on Final Probation. A student on Final Probation will not be permitted to take part in extracurricular activities, and the student will be informed that unless the student restores himself or herself to good academic standing and maintains that status, the student will be suspended from the College.

Academic Suspension. Students will be suspended academically from the College when (1) they fall a fourth time below the required cumulative GPA (whether in consecutive or nonconsecutive semesters); (2) they fail to achieve a cumulative GPA of at least 0.75 at the conclusion of any semester; (3) they have not earned by the conclusion of the second and subsequent semesters of full-time enrollment a total of at least 6 credit hours of coursework for each semester completed. Students suspended will not be permitted to return for at least the full subsequent semester (fall or spring). To request reinstatement, students must submit a written petition to the associate dean of the faculty. A suspended student who returns to the College and who is suspended again for academic reasons will be regarded as permanently separated from the College.

Upon reinstatement to the college, a student will have two semesters to bring up his or her cumulative GPA to the minimum required for good academic standing at the College.

Veterans' Services

Servicemembers Opportunity Colleges

Lebanon Valley College has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of over 400 colleges providing post-secondary education to members throughout the world. As an SOC member, Lebanon Valley College recognizes the unique nature of the military life-style and has committed itself to easing the transfer of relevant course credits, providing flexible residency requirements, and crediting learning from appropriate military training and experiences.

Veterans Benefits

Veterans who are eligible to receive educational benefits must report their enrollment to the Financial Aid Office once they register for each semester or summer session. The Financial Aid Office will then submit certification of their enrollment to the Department of Veterans Affairs. Students should complete the FAFSA and the financial aid process each year according to the school's requirements and deadlines.

Veterans receiving EAP and/or FTA benefits are responsible for applying for these benefits through their unit of assignment prior to the start of each semester or summer session and for submitting all necessary forms to the Financial Aid Office.

Veterans must notify the office immediately if they change the number of credits for which they are enrolled, withdraw, or request a leave of absence. Failure to do so may result in a charge to the student from the VA for overpayment of benefits. Veterans receiving education benefits must verify their attendance each month, no earlier than the last day of each month, to the VA on-line via WAVE. Students can access this site by going to **www.gibill.va.gov**. (Veterans receiving chapter 35, 33, and vocational rehabilitation benefits do not need to verify their attendance).

Veterans who are attending Lebanon Valley College and have never used VA education benefits before should go on-line to **www.gibill.va.gov** and fill out Form 22-1990. Dependents should fill out form 22-5490 (dependents will need the veteran's file number). This form should be submitted on-line through the GI Bill website and then printed out and either mailed or faxed to the Financial Aid Office at Lebanon Valley College.

Veterans who have used education benefits before and will either be changing their attendance to Lebanon Valley College and/or changing their program of study should submit a signed statement to the Financial Aid Office stating this change. Alternatively, a copy of form 22-1995 or 22-5495 (for dependents) can be filled out and returned to the Financial Aid Office.

Students eligible for veterans benefits who remain on academic probation for two consecutive semesters must be reported to the Department of Veterans Affairs. Veterans with questions about the College, or their status with the College, should contact the Financial Aid Office. Please be advised that Lebanon Valley College reserves the right to decrease institutional aid awarded to students receiving military and veteran's benefits as set forth below:

- The College reserves the right to decrease any institutional aid (grants/scholarships) if the sum of the veteran's benefits paid directly to the school exceeds the amount charged for tuition and fees; *and*,
- The College reserves the right to decrease an LVC Grant (awarded based on financial need) if the sum of the LVC Grant AND the veteran's benefits paid directly to LVC exceeds the student's financial need as determined by the FAFSA. The student's non-need scholarship will NOT be adjusted through this portion of the policy.

Teacher Certification for Nonmatriculated Students

Lebanon Valley College offers teacher certification to a variety of special students: students with degrees from other colleges, teachers seeking certification in other fields, or Lebanon Valley College alumni seeking certification for the first time. All students must present official transcripts of college work or their previous teacher certification to the registrar. The education department, the registrar and the appropriate academic department shall evaluate the record and recommend the appropriate course of action.

All candidates must meet the criteria for Admission to Teacher Certification Candidacy as detailed under the Department of Education, page 74.

UNDERGRADUATE ACADEMIC PROGRAMS

General Education Program

Through the General Education Program, the College most directly expresses its commitment to the ideal of liberal education that underlies its mission statement. This program seeks to prepare graduates who are intellectually engaged, skilled in communication, capable of analysis and interpretation, and open to change and difference. It seeks to establish in its graduates a foundation for their continuing education, including their intellectual, aesthetic, and moral growth, their vocational development, and their understanding of issues involving social responsibility at the local, national, and global levels.

Our General Education Program aims to educate students so that they:

- 1. Deepen their knowledge—in terms of both content and method—across a broad range of disciplines in the liberal arts, including history, the social sciences, the natural sciences, mathematics, literature, the fine arts, religion and philosophy.
- 2. Enhance their intellectual and practical skills, including critical inquiry and analysis, effective written and oral communication, quantitative reasoning, information literacy, and the ability to draw upon and integrate both content and method from different academic disciplines when considering particular problems or issues.
- 3. Develop ethical reasoning, and an understanding of cultural diversity and personal and social responsibility, in order to prepare them for local, national, and global citizenship.

The program consists of coursework in the following four areas:

Communications. 15 credit hours.

English Communications (2 courses) Writing Requirement (3 courses)

This component recognizes the central role communication plays in learning and in life. Courses teach the principles of clear and effective communication and provide opportunities to practice and refine them throughout a student's college career.

English Communications. Courses provide instruction in the elements of English composition and provide a wide range of opportunities for students to practice and sharpen their writing abilities. Courses also teach the related skills of speaking, reading, and critical thinking. ENG 112 provides a foundation in the skills essential to information literacy, i.e., the ability to find, evaluate, and make effective use of source material relevant to a research topic.

Requirement: ENG 111 or FYS 100; ENG 112.

First-year students must fulfill the communications component of the General Education Program by enrolling in either First-Year Seminar (FYS 100) or English Communications I (ENG 111). The primary goal of each course is to help first-year students become college-level writers. Students will be assigned the same amount of writing in both FYS 100 and ENG 111. An important difference between the two courses is that each FYS class is organized around a particular topic, and students will write in response to various aspects of that topic, whereas ENG 111 is not organized around a

particular topic, so its students can expect to write essays about a variety of different topics. Students in FYS should expect to do more reading than students in ENG 111.

Writing Requirement. In addition to English Communications, students must complete three courses designated **Writing Process**, preferably one each during the sophomore, junior and senior years. Along with course content, faculty will also teach writing in these courses and will make evaluation of writing quality an important factor in the course grade.

Requirement: Three courses from an approved list.

Approved: AMS 223, 229, 450; ART 312, 314, 328, 350, 353; BIO 304, 307, 312, 322, 324; BUS 285, 485; CHM 230, 321, 322; DCOM 285; DSP 335, 340; ECE 330; ECN 321, 332, 410; EDU 311, 450; ELM 371; ENG 213, 221, 222, 225, 226, 310, 315, 330, 341, 342, 350, 360; FRN 410, 420, 430, 440, 450; GMN 410, 460; HIS 205, 206, 207, 208, 217, 226, 250, 310, 312, 315, 499; INT 499; MBS 371; MED 334; MSC 201, 343; PHL 210, 215, 229, 230, 270, 301, 311, 345, 349, 499; PHT 202; PHY 328; PSC 207, 211, 215, 250, 312, 313, 316, 330, 345, 497, 498, 499; PSY 211, 245, 443; REL 230, 280, 311, 313, 499; SOC 324, 331, 382, 499; SPA 310, 410, 420, 430, 440, 450, 460; SPE 250.

Liberal Studies. 24–26 credit hours.

Courses in this component introduce fundamental concepts, methods and content in disciplines essential to a liberal education.

Requirement: Eight courses, with at least one course in each of the six areas, and two additional courses in any of the six areas; however, no more than two courses from any one area may be used to satisfy the Liberal Studies requirement.

Area 1: History. Courses acquaint students with some of the principal developments in world or American history. Students analyze problems or controversies, and learn to use different kinds of source material.

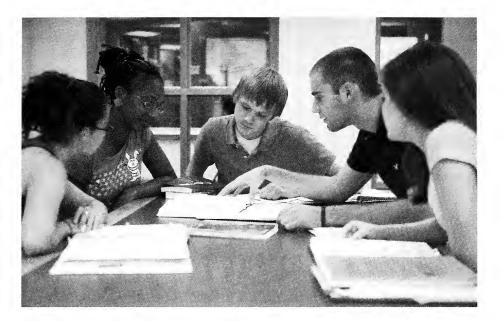
Approved: AMS 111, 220, 223, 225, 340; HIS 103, 104, 105, 125, 126, 207, 210, 217, 226, 240; PSC 207; REL 340.

Area 2: Social Science. Courses establish and explore patterns of human culture and social organization including international aspects of the world by examining the relationships among individuals and the structures and processes of societies. They draw on the theories and methodological approaches used in the social sciences and prepare students to evaluate, integrate, and communicate information and issues related to human behavior.

Approved: ECN 101, 102, 105; PSC 100, 110, 215, 245, 250, 313, 330; SOC 110, 120, 160, 210, 230, 261.

Area 3: Natural Science. Courses present findings, concepts, and theories of science, develop an understanding of scientific methods of inquiry, engage students directly in the practice of science, and prepare students to think critically about scientific issues.

Approved: BIO 101, 102, 103, 111/113, 112/114; CHM 100, 111/113 or 115, 112/114 or 116; ESS 110, 120; PHY 100, 101, 102, 103/105, 104/106, 111, 112, 120; PSY 111; SCI 100.



Area 4: Mathematics. Courses introduce pivotal mathematical ideas, abstract mathematical constructs, and mathematical applications. They make students aware of the powers and limitations of mathematics and emphasize the role of mathematics in our society.

Approved: MAS 100, 111, 112, 150, 161, 162, 170, 270.

Area 5: Literature and Fine Art. Courses acquaint students with significant works of artistic expression and with their historical and cultural contexts. They help them analyze and broaden their understanding of works of art, music and literature and seek both to extend their aesthetic experience and enhance the quality of their critical judgment.

Approved: AMS 331; ART 100, 105, 112, 114, 219, 312, 314, 318, 322, 324, 326, 328, 331, 332, 336, 338; DCOM 495; ENG 120, 180, 221, 222, 225, 226, 227, 228, 229, 375, 495; FRN 410, 420, 430, 440, 450; GMN 410, 460; MSC 100, 101, 200, 201, 242, 343; SPA 410, 420, 430, 440, 450

Area 6: Religion and Philosophy. Courses introduce major religious or philosophical perspectives, the critical study of value judgments, and the understanding that all judgments and value systems are grounded in particular worldviews. Students are encouraged to examine their own moral commitments as they develop an awareness of and tolerance for other value systems.

Approved: AMS 222; PHL 110, 210, 215, 222, 230; REL 110, 202, 230, 250, 251.

Cross-Cultural Studies. 12 credit hours.

Two courses in a foreign language. One course in Foreign Studies. One course in Social Diversity Studies.

This component responds to a contemporary world in which communication, travel and trade increasingly juxtapose cultures, values and ideas. Courses help students understand, interpret, and appreciate cultural, social, moral, economic and political systems different from their own.

Foreign Language. By learning another language, students see the world from a different linguistic and cultural perspective. These courses help students understand that all languages solve similar problems of expressing thought, but that each language provides special access to a particular human society.

Requirement: Two courses.

- Options: 1. Continue a previously studied language (two or more years) at the intermediate level. FRN, GMN, SPA 201/202.
 - 2. Begin a new language. FRN, GMN, ITA, SKT, SPA 101/102.
 - 3. Repeat the elementary level (fewer than two years in high school, or no language study for six full years). FRN, GMN, SPA 101/102.
 - 4. Complete one advanced course (requires permission from the Languages Department).

International students who are fluent in a native language other than English are exempt from this requirement.

Foreign Studies. Courses increase students' global awareness by introducing them to important aspects of societies in Asia, Africa, the Middle East and the Americas to foster an understanding of cultural, social, political, religious, or economic systems outside the European tradition.

This requirement may be met through one of the following options:

- 1. Choose one course from the approved list below.
- 2. Complete the Foreign Language requirement at the intermediate level (201/202) or higher. Note: Entering students who score a 4 or 5 on the AP foreign language exam in Spanish, French, or German must complete either one 300-level Foreign Language course or one Foreign Studies course. Students who score a 4 or 5 on the AP literature exam in Spanish, French, or German must complete one Foreign Studies course.
- 3. Participate in a semester-long study-abroad program or complete approved course work that involves substantial on-site immersion in a foreign culture.

Approved: ART 334; GMN 305; HIS 273, 274, 275, 303, 304, 305; INT 100; MSC 202; PSC 211, 212, 213; REL 140, 200, 204, 252, 253, 255; SPA 360, 460.

Social Diversity Studies. Courses focus on the social diversity in the United States and allow students to engage critically the issues—such as race, gender, class, sexual orientation, religion—that historically have divided and defined Americans. Students who participate in semester-long programs in Philadelphia or Washington, D.C., sponsored by the Study Abroad office will be considered to have fulfilled the Social Diversity Studies requirement.

Approved: AMS 229, 241, 242, 247, 280, 330, 362, 420; EDU 240, 245; ENG 420, 421; HIS 220, 241, 242, 330; PHL 229; PSC 316; PSY 247; REL 120; SDS 330; SOC 224, 226, 240, 262.

SDS 330. Diversity in the Workforce. An investigation of reasons why questions of diversity affect organizations including demographic changes, types of diversity, and relevant federal legislation. Considers differences in race, sex, gender, religion, sexual orientation, ethnic background, age, physical ability/disability and geography. 3 credits.

Disciplinary Perspectives. Three credit hours.

One course from a list approved for this component.

This component offers students an opportunity to bring insights from different disciplines to the analysis of a complex issue. Courses incorporate content and approaches from at least two disciplines, ask students to draw on their own disciplinary perspectives, and challenge them to approach and analyze issues from various points of view. Junior or senior standing is required.

Requirement: One course from an approved list.

Approved: AMS 311, 328; ART 350, 351, 353; DCOM 386; DSP 310, 320, 322, 324, 328, 335, 340, 342, 350, 352, 354, 370, 390; HIS 301; PHL 345, 349; PHT 412; PSC 345, 380; REL 313, 314.

Multidisciplinary Courses (DSP):

The faculty has approved the following multidisciplinary courses. All satisfy the General Education Program requirement for a disciplinary perspectives course. Junior or senior standing is required.

DSP 310. AIDS. An examination of the origins and history of HIV/AIDS, including its economic, political, social, psychological and legal repercussions as well as the basics of virology, serology, epidemiology and diagnostic testing. 3 credits.

DSP 320. The College Colloquium. This team-taught course is offered in coordination with the College's annual colloquium series. Specific topics are announced at the time of registration. 3 credits.

DSP 322. The 20th-Century World. An exploration of those forces that profoundly changed the institutions and structures of society in the 20th century including migrations within and across national borders, responses to environmental opportunities and threats, and uses and misuses of technology. Examines the rate, direction, and implication of societal and cultural change at national and global levels. 3 credits.

DSP 324. The American Presidency: Power and Character. An exploration of the relationship between a president's character and leadership using several administrations as case studies. Provides exposure to the historiographic literature on historical biography, presidential memoirs, the use of primary sources and the interpretation of public opinion. 3 credits.

DSP 328. Film and the American Identity. This team-taught interdisciplinary course will critically examine how films reflect, consider, and question the dominant image and understanding of the American identity. 3 credits.

DSP 335. Religion and Literature. How do human beings experience the sacred? How is faith connected with doubt? What might "God" mean? What's the point of it all? Readings will include fiction, poetry, and essays drawn from a range of historical periods. This course examines what William James called "the varieties of religious ex-

perience" from the disciplinary perspectives of literature and religion. Writing Process. 3 credits.

DSP 340. Myths and Their Meaning. Looks at the significance Greek and Roman myths hold for us today from the perspectives of literature, psychology, religion, sociology and anthropology. 3 credits.

DSP 342. Plants and People. Dependence on certain plants has shaped historical events and cultures, and continues to influence human lives today. This course explores the extent of the impact of plant life on the history, culture, and daily life of human beings. Through lectures, student class presentations, hands-on exercises and field trips, and a one-day field trip to Longwood Gardens, the effect of plants in past and present human lives will be investigated. 3 credits.

DSP 350. Drugs and Behavior. This survey course is designed to familiarize students with the physiological, psychological, social and legal aspects of various drugs including alcohol, marijuana, caffeine, over-the-counter drugs, cocaine, heroin and the opiates, LSD hallucinogens, barbiturates, and amphetamines. 3 credits.

DSP 352. Marx and Marxism. Karl Marx is among the most influential thinkers in the modern world, and the ideology of Marxism has helped shape the cultural, religious, economic, and political history of the nineteenth and twentieth centuries. This course will examine Marx and Marxism(s) from an interdisciplinary perspective, first by exploring the life and word of Marx, and Marxist parties and movements, and then by examining the effects Marx's thinking has had on global politics, economic theory, religion, and philosophy. By examining the historical and philosophical roots and continuing significance of Marx and Marxism, students will have an occasion to practice a multidisciplinary study of a historical figure and movement and become better informed about intellectual and political history and how those continue to shape the world around us. 3 credits.

DSP 354. Issues in Contemporary Europe. This course will focus on Europe after 1945. The class will begin with a segment on historical background after which it will be organized around a series of issues including geography and environment, the differences between American and European society, immigration and citizenship in Europe, ethnic conflict, the reunification of Germany, and European integration (the EU). The class sessions will center on discussion of readings from scholarly and news sources, and the films. Students will complete a project related to each student146s major with a writing component and oral presentation. 3 credits.

DSP 370. Paranormal & Pseudoscientific Phenomena: A Critical Examination. By combining ideas from the social and natural sciences, as well as religion and philosophy, this course focuses on the importance of skeptical inquiry, critical thinking, logical inference, and scientific analysis when evaluating both paranormal claims that utilize explanations beyond the boundaries of established science and real-world "junk science" that corrupts scientific methodology in order to manipulate and exploit the general public on issues with broad-reaching societal impact. 3 credits.

DSP 390. Special Topics. This number designates a special topics course in the disciplinary perspectives component of the General Education Program. Faculty may make use of this opportunity to design a course outside normal departmental offerings. The course selection booklet that appears before registration each semester will describe individual courses in this category. 3 credits.

A student may petition the director of general education to substitute another course in the curriculum for an approved course in any component of the program.

Cooperative Programs

Engineering

In the cooperative 3+2 Engineering Program, a student earns a B.S. degree from Lebanon Valley College and a B.S. degree in one of the fields of engineering from another institution. Students do three years of work at Lebanon Valley College and then usually do two additional years of work in engineering. Students may study engineering at any accredited engineering school. To assist the student, Lebanon Valley College has cooperative (contractual) agreements with The Pennsylvania State University and Case Western Reserve University in Cleveland. There are three tracks for 3+2 engineering. For most fields of engineering (e.g., civil, mechanical, electrical), the student completes the B.S. physics track. For chemical engineering, the student completes the B.S. computer science track. For more information, contact Professor Michael Day (director, 3+2 Engineering Program).

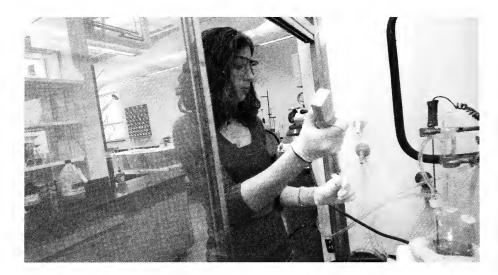
Medical Technology (Clinical Laboratory Science)

The student spends three years at Lebanon Valley College taking courses to fulfill the requirements of the College and of the National Accrediting Agency for Clinical Laboratory Sciences. Before or during the third year of the program, the student applies to a hospital with a CAHEA approved school of medical technology where he or she spends the fourth year in training. Admission is not automatic and depends upon the academic record, recommendations and an interview. Upon satisfactorily completing the clinical year, the student is awarded the Bachelor of Science in Medical Technology by Lebanon Valley College. The College is affiliated with the following (hospital) programs: School of Medical Laboratory Science of the Jersey Shore University Medical Center and the Clinical Laboratory Science Program of the Lancaster General College of Nursing and Health Sciences. However, the student is not limited to these affiliations and may seek acceptance at other approved hospitals.

Degree Requirements:

Degree: Bachelor of Science in Medical Technology

Major: BIO 111, 112, 113, 114, 201, 306, 322 or 324, 323; CHM 111, 112, 113, 114, 213, 214, 215, 216; PHY 103/105, 104/106; MAS 170 (51 credits). The senior year is spent off campus at an accredited hospital school of medical technology. It is the student's responsibility to apply and become accepted into a hospital program. Thirty semester hours of credit are awarded for the successful completion of this year.



Pre-Professional Programs

Pre-Law Program

Lebanon Valley students have done very well at a variety of law schools. Over the years, LVC students who have excelled academically have attended Harvard, Chicago, Columbia, Stanford, Washington and Lee, and William and Mary. Our graduates have also studied at several of Pennsylvania's fine schools of law, including Penn State Dickinson, Temple, Villanova, Duquense, Drexel, and Widener. Lebanon Valley alumni have pursued legal careers with corporations, government, while a number have entered politics.

Students should consult with the pre-law advisor well before commencing the law school application process. The pre-law advisor, Dr. Philip Benesch, will help you decide when to take the Law School Admission Test (LSAT) and which law schools may suit your interests and qualifications. The LSAT is required for acceptance at American Bar Association-approved law schools. The LSAT is given four times during the year, typically in February, June, September, and December. For many, it will be beneficial to take an LSAT preparation course. LVC has teamed with Kaplan to offer practice LSATS in early September and in February. A follow-up workshop will be held approximately two weeks after each practice test. In addition, we strongly recommend that before taking the LSAT, students complete PHL 120 Basic Logic, a course required for the Law and Society minor.

In addition to an applicant's LSAT score, law schools will consider his or her GPA, transcript, letters of recommendation, and personal statement. No single major is identified as an ideal preparation for law school; rather a broad liberal-arts curriculum is preferred, with courses known for significant reading, writing, and thinking challenges being particularly valued.

A **law and society minor** can be taken alongside any major at LVC. The 18 credit minor is composed of the following courses: 1) PHL 120, Basic Logic; 2) either PHL 215, Social Philosophy, or PHL/PSC 345, Political Philosophy; 3) PSC 215, Law and

Government; 4) PSC 316, Civil Liberties and Civil Rights; 5) PSC 400, Internship, and 6) PSC 497, Seminar in Legal Foundations. Further information on the Law and Society minor can be found in the History and Political Science section of the *College Catalog*.

In addition, it is **recommended** that pre-law students take the following courses to fulfill general education requirements or free electives: under Area 1, HIS 125, United States History to 1865, and HIS 126, United States History since 1865; under Area 2, ECN 101, Principles of Microeconomics, ECN 102, Principles of Macroeconomics, and PSC 110, American National Government; under Area 6, PHL 210, Ethics. Other elective courses of potential interest to pre-law students include BUS 371/372, Business Law, and ACT 161/162, Financial and Managerial Accounting.

Students interested in law school should contact the pre-law advisor as early as possible in their studies at Lebanon Valley. Dr. Philip Benesch, the pre-law advisor and director of the Law and Society Program, can be reached by phone at 717-867-6326, at his office HUM 306C, or by email at benesch@lvc.edu.

Pre-Medical, Pre-Dentistry, Pre-Veterinary

Lebanon Valley College offers pre-professional preparation in the medical (medicine, osteopathy, optometry, podiatry, pharmacy, chiropractic and dentistry) and veterinary fields. Students interested in one of these careers usually follow a science curriculum with a major in biochemistry and molecular biology, biology, chemistry or psychobiology.

In addition to the basic natural sciences suited to advanced professional study, the student may participate in an internship program between the College and local physicians or veterinarians. Students not only receive credit for the work, but also gain valuable experience in the field.

A health professions committee coordinates the various plans of study in addition to offering advice and assistance to those persons interested in health professions careers.

Lebanon Valley College graduates have been admitted to some of the nation's finest schools, including Johns Hopkins University Medical School, University of Virginia, Cornell University, The University of Pennsylvania, The University of Pittsburgh, Jefferson Medical School, Lake Erie College of Osteopathic Medicine, The Pennsylvania State University Medical School at Hershey, Temple University School of Pediatric Medicine, The University of Maryland, The Philadelphia College of Osteopathic Medicine, The Pennsylvania College of Pediatric Medicine, and the Pennsylvania College of Optometry.

Individualized Major

The option of an individualized major is available to students who desire a field of concentration that is not substantially addressed by any one department. The faculty represents a diverse set of interests and perspectives that provide a considerable resource for those students who would like to develop a major around concerns that do not fall into traditional disciplinary areas. As a liberal arts institution, the College and its faculty are willing to help a student develop a program of study using interdisciplinary courses.

A student planning an individualized major should prepare an application that includes courses relevant to the topic and secure the written endorsement of at least two

faculty advisers for the proposed major, which shall consist of at least 24 credits above the 100 level.

The student should submit the application to the vice president for academic affairs and dean of the faculty for final approval. The student will work closely with the advisors. Any changes in the program must be submitted to the dean for approval.

Degree: Bachelor of Arts or Bachelor of Science degree (depending upon concentration) with an individualized major.

Requirements: Those courses specified within the approved individualized major plus those courses to meet the general requirements of the College.

Internships

An internship is a practical and professional work experience that allows students to participate in the operations of business, industry, education, government or not-forprofit organizations. Internships provide students with opportunities to integrate their classroom learning with on-the-job experiences and to test practical applications of their liberal arts education in a variety of settings.

To be eligible for an internship sponsored by an academic department or program, a student generally will have junior or senior standing. Students must request and receive permission from departmental chairpersons or program directors to enroll in internships. The student must also enlist a faculty internship supervisor from the department sponsoring the internship and an on-site internship supervisor from the internship location. Application forms for internships are available in the office of the registrar. The application form shall be completed by the student and approved by the student's academic advisor, faculty internship supervisor, on-site internship supervisor, and the department chairperson prior to registration.

For each semester hour of credit, the intern should invest at least 45 hours of time at the internship location. Academic departments and programs establish other specific criteria and procedures for internships. In addition to the practical on-site experience, internships have an academic component that may include readings, reports, journals, seminars and/or faculty conferences. A student may enroll for 1–12 credit hours of internship during any one semester. A student may use a maximum of 12 credit hours of internship to meet graduation requirements. All internships have a course number of 400.

Independent Study

Independent study provides an opportunity to undertake a program of supervised reading, research or creative work not incorporated in existing formal courses. The independent study should result in a formal document. Independent study shall not be used to approximate an existing course or to cover projects more properly described as internships. Junior or senior standing and a minimum GPA of 2.00 or higher are required.

For one semester hour of credit, the independent study student should invest at least 45 clock hours of time in reading, research or report writing. The independent study involves a contract between the student and the faculty member (contract instructor) who will oversee the study. Written application forms regarding the independent study are available in the office of the registrar. The forms must be completed by the student

and approved by the student's faculty advisor, the contract instructor, and the department chairperson.

Students may enroll in a maximum of 3 credit hours per independent study in any one semester. A maximum of 6 credit hours in independent study may be used toward the graduation requirements. All independent studies have a course number of 500.

Tutorial Study

Tutorial study provides students with a special opportunity to take an existing formal course in the curricula that is not scheduled that semester or summer session. Students desiring a tutorial study must have an appropriate member of the faculty agree to supervise the study on a one-on-one basis.

For one semester hour of credit, the student should invest at least 45 clock hours of time in the tutorial study. The tutorial study essentially involves a contract between the student and the faculty advisor. The typical tutorial study involves readings, research, report writing, faculty conferences, and examinations. All tutorial study courses have the same course number as the existing formal catalog course.

Special Topics Courses

From time to time, departments may offer Special Topics courses using the following course numbers: 290–298, 390–398, 490–498, and 590. Special Topics courses are formal courses that are not listed permanently in the curricula and that are offered infrequently. These courses examine comparatively narrow subjects that may be topical or of special interest. Several different topics may be taught in one semester or academic year. A specific course title shall be used in each instance and shall be so noted on the student record.

Study Abroad

Lebanon Valley College has established its own study abroad programs for students majoring in all subjects. All programs ensure a cultural immersion experience for students, with several programs, open to language majors and non-language majors, also offering a language-enhancement opportunity. These programs are located in Argentina, Australia, England, France, Germany, Greece, Italy, Netherlands, New Zealand, Northern Ireland, Spain and Sweden. Lebanon Valley College also offers off-campus academic internship programs in Philadelphia and Washington, D.C. Students in any major field can gain work experience in a large U.S. city while earning academic credits for the semester. Further information on all off-campus programs may be obtained at the Study Abroad Office, HUM 206, ext. 6076. See In-Absentia on page 14.

UNDERGRADUATE DEPARTMENTS AND PROGRAMS AMERICAN STUDIES PROGRAM

The American studies program is designed to heighten critical awareness and appreciation of what is distinctive about American culture. As a self-consciously interdisciplinary program, American studies is the primary site at LVC for courses dealing in women's studies, ethnic studies, cultural studies, and media studies. Its curriculum regularly touches on issues of class, gender, ethnicity, and multiculturalism. As a result, many of the general education program's required courses in social diversity studies are listed through the American studies program. The program also has courses that critically explore the interrelationship of religion and politics in the United States, the impacts of consumerism on the American economy and culture, the distinction between "popculture" and "high culture," and the importance of the counter-cultural movement in American art, literature, and film.

The American studies program draws on faculty from various disciplines and departments from throughout the College, such as religion and philosophy, history and political science, anthropology, psychology, art, English and music. Each class is committed to engendering a culture of participation in which student input and engagement are absolutely essential to the success of the course. Also, the program is known for creating many of the most innovative and experimental courses on campus, such as the teamtaught courses on violence and non-violence and on film and the American identity.

The requirements for a major or minor in American studies are relatively light and extremely flexible. This allows many of the majors and minors to complete a double major, and also provides ample opportunity for studying abroad. An undergraduate degree in American studies can lead to a career in teaching, publishing, law, journalism, government, consulting and research, historic preservation, museums, archiving, tourism, or a number of other professions. Many of our graduates also go on to graduate school to earn a master's degree or doctorate in American studies or a related discipline.

Degree requirements:

Degree: Bachelor of Arts with a major in American studies.

Major Core: 33 credits

Students must take at least six AMS courses, including AMS 111 and AMS 450, and at least one course at the 200 and 300 level.

In addition this minimum of six AMS courses, students must take at least two (and no more than five) courses outside of the program on topics related to U.S. culture. These courses will be chosen in consultation with the advisor.

Minor: 18 credits

AMS 111 and AMS 450 are required, in addition to at least one course at the 200 level and one at the 300 level.

Courses in American Studies (AMS):

111. Introduction to American Studies. An interdisciplinary approach to the study of America's heritage and the distinguishing features of the American mind and character. 3 credits.

220. *American Popular Culture: Production and Consumption.* This course will offer a critical investigation of the role of popular culture in American life. From Tin Pan Alley to hip-hop, from fast food to pro wrestling, popular culture shows an increasing influence on American economic, social, and political life, and has become central in helping to define American identity and even reality itself. We all participate in popular culture in some way, and this course will give students the chance to explore its meanings and importance in their lives and in American culture. 3 credits.

222. American Philosophy. A survey of philosophical thought in the United States from colonial period to present, with emphasis on the work of Peirce, James, and Dewey. 3 credits. [Cross-listed as PHL 222.]

223. *American Thought and Culture.* A survey of American intellectual history and cultural criticism ranging from Puritanism and Enlightenment Rationalism to multiculturalism, feminism, and post-modernism. Writing process. 3 credits.

225. Democracy in America. This course will explore both the historical origins and development of the cultural ideal of democracy in the United States. By focusing on the cultural ideal of democracy, it will seek to understand the impact and meaning of democracy in America beyond that of political institutions alone. It will include readings and discussions in history, literature, politics, and cultural anthropology. 3 credits.

229. Culture and Conflict in Modern America. An examination of the social, political, economic and cultural upheaval of the 1960s and 1970s in the historical context. Writing process. Social Diversity Studies. 3 credits. [Cross-listed with PHL 229.]

240. Working Class Studies. This course incorporates a variety of approaches to working class studies: historical, sociological, cultural, and political. The primary focus of the class will be on the US, but some comparisons to other countries will be made to help highlight what is specifically American about our class system. Social Diversity Studies. 3 credits.

242. The African-American Experience. This course will introduce students to the complexities of the African-American experience in the past and present. It will survey how the black experience, thought and culture has been shaped and fractured by economics, politics, class, gender, and national origin. The basic disciplinary approach to the subject will be historical, but will include the analysis of black culture, notably writing and music. 3 credits. Social Diversity Studies. 3 credits.

247. Psychological Perspective on Gender. This course is designed to address a broad spectrum of issues related to the psychology of gender. Of central importance is the examination of empirical findings related to gender differences and similarities in biological, behavioral, cognitive, social, and emotional domains. The course will also involve a critical examination of the meaning of gender in the field of psychology and in the broader society. Prerequisites: PSY 111, 112, 120 or 130. Social Diversity Studies. 3 credits. [Cross-listed as PSY 247.]

280. Gender and Sexual Minorities in American Culture. This course explores the lives of those individuals living with a lesbian, gay, bisexual, transgender, or queer identity (LGBTQ) and the relationship these individuals have with those around them. Exploration of the historical and contemporary implications of living with an LGBTQ identity, how these identities develop, the struggle for civil rights and legal protections, and how

Lebanon Valley College

various factors such as the AIDS crisis, the media, religion, and others impact LGBTQ persons will also be explored. Social Diversity Studies. 3 credits.

311. American Science and Technology. A study of American science and technology and their interrelations with economic, cultural, political and intellectual developments. Prerequisite: Any laboratory science course. 3 credits.

328. Film and the American Identity. This team-taught, interdisciplinary course will critically examine how films reflect, construct, and question the dominant image and understanding of the American identity. Disciplinary perspective. 4 credits.

330. American Ruling Class. This course offers students a chance to explore the origins, histories, institutions and current practices of the American aristocracy. Students will learn about how the very rich families that currently enjoy enormous hereditary wealth obtained and maintain their fortunes. 3 credits.

331. American Art. An introduction to art from 1650 to the present day. The course offers a critical grounding in selected themes with an emphasis on cultural history and stylistic change. Includes painting, architecture, film, photography, and sculpture. 3 credits. [Cross-listed as ART 331.]

340. One Nation Under God? This course will explore the relationship between religion and politics in the United States. It will include an examination of the role religion played in the founding vision of our nation's democracy, as well as the important separation between church and state that has been achieved over the course of our nation's history. With this historical backdrop in mind, special emphasis will then be given to the ascendancy of the religious right in recent electoral politics. 3 credits. [Cross-listed as Religion 340.]

362. Multiculturalism and American Identity. This class offers you a chance to familiarize yourself with the variety of ethnic, racial, gender, and sexual groups and identities in the U.S. You will gain or enhance your intellectual framework for understanding and appreciating diversity. It also will prepare you to survive and thrive in our complex and challenging world. The course relies on history, literature, and cultural studies and will be challenging but also fun. Social diversity studies. 3 credits.

400. *Internship. Field experience at a cultural agency.* Ordinarily intended for juniors and seniors. Prerequisite: GPA of 2.50 in major and permission of department chair. Minimum 3 credits.

420. *African-American Literature.* This course examines African-American literature from the 19th century to the present. It will provide a foundation in African American literary traditions, including the slave narrative, texts from the Harlem Renaissance, and the writings of the Black Arts Movement. The discussion format of the course will provide space for students to explore how African-American writers have uniquely addressed issues of race, gender, national identity, slavery, and citizenship. Social diversity studies. 3 credits. [Cross-listed as ENG 420.]

450. Senior Seminar. A capstone course organized around a major theme or issue in the American experience. Themes and issues vary from year to year as the seminar rotates among faculty in several academic departments. Students are able to integrate their educational experience and implement further the interdisciplinary methodology in a holistic approach to a topic or subject. 3 credits.

Faculty

Gary Grieve-Carlson, professor of English. Director of general education program. *Ph.D., Boston University.*

Grieve-Carlson teaches courses in American literature, American Studies, Greek myth, and grammar. He has been a Fulbright Junior Lecturer in Germany and has published on American cultural criticism and twentieth-century poetry. Serving as director of general education, he supervises the First-Year Seminars.

Laura G. Eldred, assistant professor of English.

Ph.D., University of North Carolina at Chapel Hill.

She teaches courses in American, British, and Irish literature; mass communications; film; and arts criticism. She has a special interest in postcolonial theory and literature, and has published on the horror genre in film and literature.

John Hinshaw, associate professor of history.

Ph.D., Carnegie Mellon University.

Hinshaw teaches courses on modern American history, black history, urban history, African history, world history, labor history, and specialized courses in race and ethnicity. He has written and edited books on the industrial revolution in world history, the steel industry and steel workers in Western Pennsylvania, and the labor movement in the United States.

Renee Lapp Norris, associate professor of music.

Ph.D., University of Maryland.

Norris teaches the music history sequence, American music history, other topics courses, and form and analysis.

Michael Pittari, associate professor of art.

M.F.A., University of Tennessee.

Pittari's abstract paintings incorporate color, line, and surface to address issues of balance and compatibility. He is a former editor of the journal *Art Papers*, with research interests in design, film and critical theory. He is represented by Marcia Wood Gallery in Atlanta and has exhibited throughout the United States. He teaches studio art and design in addition to courses on film theory.

Jeffrey J. Ritchie, associate professor of digital communications. *Ph.D., Arizona State University.*

Ritchie teaches courses in English communications, digital communications, and British literature. In addition to a doctorate in English literature, he has a master's degree in educational media and computers. His interests include interdisciplinary studies in science, literature, and national identity; 18th- and 19th-century British literature; interactive media and narrative; and multi-media design. He currently serves as the assistant editor of the *International Digital Media and Arts Association Journal* and serves on the advisory board of the International Digital Media and Arts Association.

Jeffrey W. Robbins, associate professor of religion and American studies. Director of the American Studies Program.

Ph.D., Syracuse University.

Robbins' area of specialization is in continental philosophy of religion. He is also inter-

Lebanon Valley College

American Studies 37

ested in the relationship between religion and politics. His teaching interests include contemporary religious thought, world religions, film theory, and religion and culture. He is the author of two books, *Between Faith and Thought: An Essay on the Ontotheological Condition* (2003), and *In Search of a Non-Dogmatic Theology* (2004), editor of *After the Death of God* with John D. Caputo and Gianni Vattimo, and co-editor of The Sleeping Giant Has Awoken: The New Politics of Religion in the United States.

Catherine Romagnolo, assistant professor of English.

Ph.D., University of Maryland.

Romagnolo teaches courses in American literature, women's literature, and various forms of writing. She has published on topics such as American literature and narrative theory and is working on a project on narrative beginnings.

Kerrie D. Smedley, associate professor of psychology.

Ph.D., University of Nebraska-Lincoln.

Her teaching interests include general psychology, life-span development, and the psychology of gender. Her research interests include cognitive aging, worry, and depression across the adult years. She is a member of the Association for Psychological Science and the Human Behavior and Evolution Society, and is the faculty advisor for the Psychology Club.

Grant D. Taylor, assistant professor of art history.

Ph.D., University of Western Australia.

Taylor teaches courses on American Art and Architecture. His interdisciplinary research centers on the symbiotic relationship between art, science, and technology in the late twentieth century. His most recent scholarship is concerned with the history of computer art in the United States.

Donald E. Byrne, professor emeritus of religion.

Ph.D., Duke University.

Byrne's scholarship has focused on American folk religion, particularly as expressed in the Methodist and Roman Catholic communities. Other interests include American studies, religion and ethics, religion and literature, peace studies, and mysticism.

Jean-Paul Benowitz, adjunct instructor in history.

M.A., Millersville University.

Benowitz teaches American history. His research and teaching interest is on U.S. political history for the period since 1928, with particular focus on the Roosevelt-Truman and Kennedy-Johnson administrations. Related fields of interest include social, cultural, and diplomatic history for the period since 1945. He is completing a doctorate at Temple University.

R. Troy Boyer, adjunct instructor in American studies.

A.B.D., Indiana University.

His dissertation at the University of Indiana is titled "Datt Drunne Deheem (Down Home); Sense of Place in Pennsylvania Dutch Country." He teaches introductory American studies, popular culture, and other courses.

DEPARTMENT OF ART AND ART HISTORY

In the Art and Art History Department we invite our students to explore the creative process and to engage in the study of significant works of art and architecture. The focus of the program is on the development of essential skills: visual literacy, the ability to articulate oral and written arguments, and professional preparedness. We achieve this goal through innovative teaching and a rigorous curriculum that challenges students to develop their own path of learning under the guidance of accomplished faculty mentors. With this foundation our graduates are equipped to begin careers as artists, designers, museum workers, and teachers, and are able to successfully complete postgraduate degree programs at institutions nationwide.

The degree program in art and art history consists of a bachelor of arts (B.A.) degree in art and art history, as well as Pennsylvania State Certification in art education. The department offers numerous opportunities for specialization in studio art and design, art history and museum studies, film, and new media. Within range of four major cities, the department is situated in a culturally rich area that offers frequent opportunities for learning outside the classroom. Majors are also encouraged to study abroad with destinations frequently including England, Italy, and Greece.

The department is situated in the newly redesigned Lynch Memorial Hall, containing classrooms with state-of-the-art digital projection systems; dedicated painting, sculpture, and design studios; private studio spaces for advanced students; and a large photographic darkroom. The nearby Gladys M. Fencil Art Building contains dedicated studios for drawing, printmaking, and ceramics, including potter's wheels, kilns, and raku equipment. Next door is the Suzanne H. Arnold Art Gallery, hosting museumquality exhibitions of work by innovative contemporary artists and historical masters, and housing a permanent art collection for instruction and student research.

Graduates of the art and art history program pursue a wide variety of creative endeavors, including fashion design, museum work, and commercial photography. Students who successfully complete the art education certification program are qualified to teach kindergarten through 12th grade. The art and art history program also prepares students for advanced degrees in art history, studio art, architecture, or art therapy, which can lead to a career in college-level teaching and research, art conservation, museum curatorship, architectural design, or art therapy.

There are no prerequisites for entry into the art and art history program, though a high advanced placement score or strong portfolio may entitle a student to advanced studio or art history course placement.

Art and Art History Program

Degree Requirements:

Degree: Bachelor of Arts with a major in art and art history; certification in art education.

Major: Core requirements: ART 100, 105, 112, 114, 209. Seven additional ART courses. ART 405 (39 credits).

Art Education Certification Requirements: ART 100, 105, 112, 114, 209; 211, 225, or DCOM 355; 213, 219, 223; 312 or 314. Three additional courses from those offered to art and art history majors (39 credits). Certification candidates must also complete 33

Lebanon Valley College

Art and Art History 39

credits in additional required coursework. See the education department section on pages 84–85 for additional information.

Minor: ART 100, 105, 112, 114, 209, and one additional course from those offered to art and art history majors (18 credits).

Courses in Art and Art History (ART):

100. Concepts in the Visual Arts. This course explores fundamental issues in the production and interpretation of art. Representation and style, changing ideas of beauty, the artist in society, art and controversy, and the relationship of art to visual culture are studied as the basis for gaining a greater understanding of images. 3 credits.

105. *Fundamentals of Drawing.* Using a variety of media, this essential studio course explores drawing as a way of seeing and recording visual information from the world around us. Principles of composition and explorations of personal expression are also introduced. 3 credits.

112. Art Survey: Ancient-Gothic. An introduction to art and architecture in its historical and cultural context from the ziggurats of Mesopotamia and the pyramids of dynastic Egypt to the temples of ancient Greece and Rome, the mosaics of Byzantium, and the illuminated manuscripts and soaring cathedrals of medieval Europe. Attention is paid to skills in critical description and visual analysis. 3 credits.

114. Art Survey: Renaissance–Postmodern. From Giotto to Giacometti, Fragonard to Frank Lloyd Wright, an examination of the visual and material culture of the Western world from the fourteenth century to the present day. Special attention is paid to aesthetics, economics, gender, and nationalism. 3 credits.

120. *Introduction to Art Therapy.* This course explores the history of the art therapy profession and the development of creative expression in young people up to the age of fourteen. Emphasis is placed on the use of different art media, approaches, and techniques. 3 credits.

209. *Fundamentals of Sculpture.* Through the use of traditional sculptural materials plaster, clay, metal, and wood—this course investigates the art and design of three-dimensional form. Modeling, carving, mold-making, metalworking, and assemblage are introduced as essential sculptural processes. 3 credits.

211. Photography. This course explores the technical and conceptual elements of fineart, film-based photography. Students are introduced to the operation of the camera, processes of film development and black-and-white printing, compositional and aesthetic principles, and thematic explorations. Single lens reflex camera with manual mode required. 3 credits.

213. Fundamentals of Design. An introduction to the fundamental elements of art and design. Students work with graphic symbols, theories of visual perception, principles of composition, and color interaction in a variety of studio projects. 3 credits. [Cross-listed as DCOM 255.]

217. Figure Drawing. This course utilizes an intensive exploration of human form as a central component of drawing and expressive mark-making. Students consider histori-

cal and contemporary figurative art as a basis for the development of individual concepts. Prerequisite: ART 105 or by permission. 3 credits.

219. *Fundamentals of Painting.* This course introduces the physical and visual properties of oil paint. Through a variety of projects, students explore the expressive potential of this medium and learn basic techniques of professional studio practice, such as constructing a painting support and working safely with paint. Prerequisite: ART 105 or by permission. 3 credits.

221. *Watercolor.* This course explores the unique properties of watercolor paint. Individual pictorial development is emphasized through a variety of subjects, with a focus on historical and contemporary uses of the medium. Prerequisite: ART 105 or by permission. 3 credits.

223. Ceramics. Students explore a number of essential ceramic techniques, such as pinch-, coil-, and slab-construction, wheel-throwing, and a range of low-temperature surface treatments. The course focuses on fundamental principles of design, with reference to ceramic history and contemporary uses of the medium. 3 credits.

225. Printmaking. In this course students explore a variety of techniques and approaches central to the history of printmaking, including relief printing, intaglio, collographs, and monotypes. Students also learn how prints are handled and exhibited. Prerequisites: ART 105 or by permission. 3 credits.

305. Intermediate Drawing. Students explore expressive and thematic potential in a variety of media. Attention is paid to the development of individual concepts and visual languages. Prerequisite: ART 105 or by permission. 3 credits.

309. Pastel. This course introduces students to the visual and tactile properties of pastel and explores the expressive potential of the medium through a variety of techniques, from non-directional mark-making to edge-building. Attention is paid to the history of pastel and to basic rules of conservation and framing. Prerequisites: ART 105 or by permission. 3 credits.

312. Renaissance Art. Focusing on the late thirteenth to the end of the sixteenth century, this course offers a comprehensive survey of the major monuments, themes, and developments of Renaissance art in Europe. Works by Giotto, Van Eyck, Brunelleschi, Botticelli, Dürer, Michelangelo, Raphael, and Titian, among others, are examined. Prerequisites: ART 100 or ART 112 or ART 114. Writing process. 3 credits.

314. Art in the Age of Romanticism. This course uncovers the roots of modernism by tracing patterns of change in the art of France, Spain, England, and the German states from the 1780s to the 1860s. Painting and sculpture are examined in the context of political unrest, urban and industrial expansion, colonialism, the lure of the Orient, new criticism, and the burgeoning art market. Prerequisites: ART 100 or ART 112 or ART 114. Writing process. 3 credits.

315. Intermediate Sculpture/Ceramics. This course offers an intensive exploration of the making of sculpture, extending beyond fundamental processes to more advanced areas of thematic study. Historical and contemporary viewpoints are examined. Prerequisites: ART 209 or by permission. 3 credits.

Lebanon Valley College

318. Greek and Roman Art and Architecture. A survey of ancient Greek and Roman art and architecture, highlighting major stylistic phases, monuments, and objects of art from the Greek Archaic period to the fall of Rome. The cultural, philosophical, political, and economic contexts from which Greek and Roman art emerged, and classical revivals in post-medieval Europe and in America, are also explored. Prerequisites: ART 100 or ART 112. 3 credits.

319. Intermediate Painting. This course takes a thematic approach to painting, focusing on such areas of study as abstraction and experimental media. Emphasis is on process, technique, and individual conceptual investigations. Prerequisites: ART 219 or by permission. 3 credits.

322. Italian Baroque Art and Architecture. This course surveys painting, sculpture, and architecture in a social, political, and cultural context in 17th- and 18th-century Italy. The work of the Carracci, Caravaggio, Bernini, and Borromini will be examined. Students explore such issues as patronage by private citizens, nobles, and popes; art and religion; the classical tradition; and art and architectural theory. Prerequisites: ART 112 or ART 114. 3 credits.

324. Dutch Art 1600–1800: The Golden Age. An introduction to the art of the Low Countries, including the work of Rembrandt and Vermeer. Particular attention is paid to questions of stylistic, geographical, and cultural difference and to the social circumstances in which works were produced, viewed, and sold. Prerequisites: ART 112 or ART 114. 3 credits.

326. Impressionism and Post-Impressionism. An examination of the origins, making and meaning of Impressionist and Post-Impressionist paintings in the context of momentous social and economic change in 19th-century France. Artists include Manet, Degas, Monet, Cézanne, Gauguin, and Van Gogh. Prerequisites: ART 100 or ART 114. 3 credits.

328. Modern Art. An overview of modern art from the 1890s to the rise of postmodernism in the 1970s, including important stylistic movements such as Cubism, Dada and Surrealism, Abstract Expressionism, Minimalism, Pop Art, and Conceptual Art. The focus will be on the ideas, works, and critical reception of specific artists, widened to include issues of science and technology, race and gender, and related developments in politics and literature. Prerequisites: ART 100 or 114. Writing Process. 3 credits.

331. American Art. An introduction to American art from 1650 to the present day. The course offers a critical grounding in selected themes, with an emphasis on cultural history and stylistic change. Includes painting, architecture, film, photography, and sculpture. 3 credits. [Cross-listed as AMS 331.]

332. Art and the Moving Image. This course examines the interrelationship of art history and film studies from the origins of photography and cinema in the 1800s to the present day. Specific examples of filmmakers and artists are examined, as well as various art movements including Cubism and Surrealism. Prerequisite: ART 112 or 114. 3 credits.

334. East Asian Art. An introductory survey of the art and architecture of China and Japan from the Neolithic age to the 20th century, examined in a social, cultural and political context. Among the topics covered: Jõmon pottery in Japan; Buddhist caves in China; imperial palaces in Chang'an and Beijing; Japanese castles; landscape, figure, scroll, and screen painting; and Eastern gardens. Prerequisites: ART 100 or 112 or 114. Foreign Studies. 3 credits.

336. East West: Art and Cultural Interchange from Hellenism to the Modern Era. An examination of the impact of Eastern culture, aesthetics, and formal design on Western art and architecture. Attention is given to Western historical conceptions of "otherness" and to the limitations of Western critical approaches to art history. Prerequisites: ART 100 or ART 114. 3 credits.

338. Rome. This course investigates the art, culture, and architecture of Rome from the pre-Republican era to the 21st century. Organized thematically and chronologically, the course considers such topics as: images of authority; subterranean Rome; the path of the medieval pilgrim; antiquity and its reinterpretations in the Renaissance; urban planning in Counter-Reformation Rome; the Grand Tour; and Mussolini and fascist architecture. Prerequisites: ART 112 or ART 114. 3 credits.

340. Museum Studies. This course examines the history, principles, and practices of art museums. Students investigate issues related to the development, care, and use of museum collections; the function, management, and operation of museums of art; museum education; curatorial methods and exhibition development; and research and catalogue writing. Prerequisites: ART 112 and ART 114. 3 credits.

350. *Paris: Art, Culture and Urban Development.* An exploration of the art, architecture, culture, and urban planning of Paris from Roman settlement to modern capital city. Students assess the ways in which the demands of patrons, the vision of urban administrators, and the increasing power of the middle class tempered the aims of artists in the city over the centuries. "Visits" include Notre Dame, the Louvre palace, Montmartre, and even the Paris sewers, with excursions to Versailles and other royal chateaux. Writing process. Disciplinary Perspectives. 3 credits.

351. Color: Art and Cultural Context. This course immerses students in a thematic investigation of color as a dynamic force in human perception, the natural world, and popular contemporary culture. Perceptual experiments, readings, and film screenings help to uncover the vital role color plays in our understanding of the world around us. Disciplinary Perspectives. 3 credits.

353. *Visual Art and Religious Experience.* An exploration of the way in which the visual arts have come to embody religious experience in Native American, Buddhist, and Abrahamic traditions. A series of comparative studies introduce students to socioreligious content in art and diverse impulses to worship. Writing process. Disciplinary Perspectives. 3 credits.

360. *Teaching Art in the Elementary and Secondary School.* Using skills in drawing, painting, sculpture, printmaking and ceramics, certification candidates learn how to address all ability levels in the elementary- and secondary-school art classroom. The course addresses the needs of students with disabilities, as well as classroom management and

Lebanon Valley College

organization, approaches to school administration, budgeting, lesson planning, grading, special events, and ways to establish assignment deadlines. Prerequisites: open only to Art Education Certification candidates. 3 credits.

405. Advanced Study. The focus of this course is an extensive research project in art history or the creation and exhibition of a unique body of work in the art studio, facilitated by individual tutorials and group discussion. Presrequisites: open only to art and art history majors. 3 credits

Faculty

Michael Pittari, associate professor of art. Chairperson.

M.F.A., The University of Tennessee.

Pittari is an artist who works in painting and digital imaging. His abstract paintings have been exhibited throughout the Eastern United States and are in several corporate collections. His recent series of landscape prints, based on American wilderness paintings of the 1800s, address issues of history and iconography within the broader field of landscape studies. Pittari teaches studio courses in drawing, painting, and advanced art making, in addition to historical courses on color and culture and the interrelationship of art and cinema.

Grant D. Taylor, assistant professor of art history.

Ph.D., The University of Western Australia.

Taylor is an art historian who specializes in the history of early digital arts. His recent publications chart the complex relationship between 1960s computer arts and the mainstream art world. Taylor has also completed a documentary film and a number of art installations and built structures in the United States and Australia. Beyond teaching courses in 20th- and 21st-century art and architecture, Taylor specializes in interdisciplinary courses that include art and technology and the history of photography.

Daniel Massad, artist-in-residence.

M.F.A., The University of Kansas.

Massad is a nationally recognized artist who works in pastel on paper. His intricate, symbolic still life drawings are in many public collections including the Metropolitan Museum of Art and the Philadelphia Museum of Art. He has exhibited his work throughout the United States, and is represented by Forum Gallery in New York City. As artist-inresidence, Massad is a valuable resource as a teacher and mentor to students within the Art and Art History program.

Lisa Neal Tice, director, Suzanne H. Arnold Art Gallery and adjunct assistant professor of art history.

Ph.D., Rutgers University.

Tice is an art historian whose research focuses on Italian Renaissance and Baroque architecture. She recently completed her doctoral dissertation on garden casini in late sixteenth- and early seventeenth-century Rome and is continuing research in this area. Tice teaches courses on Italian Renaissance and Baroque art and architecture, and has taught architectural history. As Director of the Suzanne H. Arnold Art Gallery, she curates exhibitions that span a broad spectrum of art historical interests.

Karen Rich Beall, adjunct instructor of ceramics and sculpture.

M.F.A., The University of Tennessee.

Beall is a nationally recognized sculptor whose work is inspired by living forms in the natural world. She has exhibited in New York, Los Angeles, and Philadelphia, and is represented by Solomon Projects in Atlanta. Beall teaches ceramics, sculpture, and advanced art making.

Nancy Williams, adjunct instructor of art and art education.

M.Ed., Millersville University.

Williams works in drawing, painting, and printmaking. She has exhibited around the region in various commercial and university galleries. Williams works closely with students in the Art Education program in addition to teaching courses in drawing, watercolor, and printmaking.

Nicole Herbert, adjunct instructor of sculpture.

M.F.A., Maryland Institute College of Art.

Herbert is a sculptor who translates familiar objects and aspects of architectural spaces into different materials. She has exhibited her work and participated in public arts projects in Pennsylvania, Ohio, Maryland, New York, and China. Herbert teaches courses in sculpture.

Barbara McNulty, adjunct instructor of art history.

Ph.D., Temple University.

McNulty's research focuses on Byzantine and Medieval portraiture. She has presented papers at academic conferences throughout the United States, and has developed courses on the history and theory of portraiture and on the body in the art and architecture of the Middle Ages.

Nathan Nixdorf, adjunct instructor of ceramics.

B.S., James Madison University.

Nixdorf creates both functional and non-functional ceramics. He has exhibited at the National Council on Education for the Ceramic Arts conference as well as in private galleries throughout the region. Nixdorf teaches all levels of ceramics.

Nicole Stager, adjunct instructor of photography.

M.F.A., Transart Institute, Danube University Krems.

Stager has been working with and studying the photogram for ten years. She has exhibited in various solo and group shows as locally as Reading and as far away as China. Her photographs have been included in several publications including Harper's magazine and The Edge of Vision: Abstraction in Contemporary Photography. Stager's courses include darkroom and digital photography.

Barbara Anderman, associate professor emerita of art history.

Ph.D., Rutgers University.

DEPARTMENT OF BIOLOGY

Biology Program

The Biology Department attempts to share with all LVC students the role of living organisms within the universe. We encourage the students to understand how these organisms interact with each other and their environments and are the result of the complex interplay of ordinary chemicals, arranged according to the fundamental laws of physics and assembled in mathematically predictable ways.

The goal of the Biology Department is to produce graduates who are well versed in the principles and techniques of biology, have the intellectual training to investigate novel concepts, have the ability to learn independently, interpret and articulate clearly their findings, possess the highest scholarly standards of the discipline, and maintain honest academic conduct.

The Biology Department curriculum (I) employs the underlying principles of biology and requires a background in the supporting disciplines; (2) requires the application of the scientific method in the laboratory or field; (3) integrates informational retrieval, the synthesis of ideas into a coherent whole, and the communication of research findings; and (4) prepares students for advanced study in medical, dental and veterinary professional schools, graduate schools, and employment in technical fields.

Degree Requirements:

Degree: Bachelor of Science with a major in biology.

Major: BIO 111, 112, 113, 114, 201, 499; two courses from the area of Cellular/Molecular Biology—BIO 231, 304, BIO 306, BIO 323, BCMB 401; two courses from the area of Organismal Biology—BIO 221, BIO 302, BIO 305, a physiology course: BIO 307 or BIO 322 or BIO 324; one course from the area of Population Biology—BIO 212, BIO 312, ST/BIO 290 (33 credits). CHM 111, 112, 113, 114, 213, 214, 215, 216 (16 credits); PHY 103/105, 104/106 or 111, 112; MAS 161 (111) or MAS 170 (60-61 credits total).

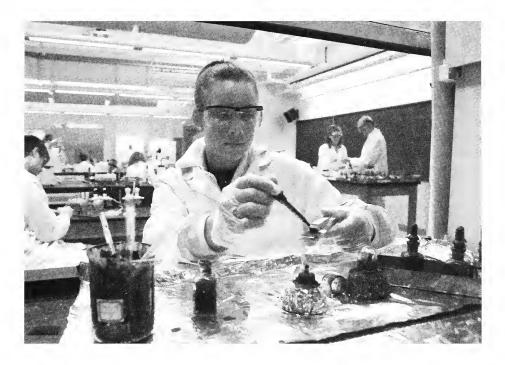
Minor: BIO 111, 112, 113, 114; plus four additional courses in biology at 200 or above except BIO 400 and 500. (24 total credits).

Secondary Teacher Certification: In addition to a major in biology, students seeking secondary certification in biology must take BIO 312. Certification candidates must also complete 33 credits in additional required coursework. See the education department section on pages 84–85 for additional information.

Courses in Biology (BIO):

- 1. BIO 111, 112, 113, 114 are prerequisites for all upper-level courses in biology. Additional prerequisites, if any, are listed with each course.
- 2. Students must pass BIO 111/113 with at least a D- in order to take BIO 112/114.
- 3. Students must achieve at least a C- average (1.67) in BIO 111/113 and BIO 112/114 before taking upper level BIO courses.

101. Human Biology. The human organism is utilized as the primary focus to elucidate physiological principles for non-science majors. Topics include nutrition, homeostasis, major organ systems, immunity and exercise physiology. Laboratory exercises



include sensory physiology, respiration, blood pressure, exercise physiology and ECG. 4 credits.

102. Human Heredity. This course is intended for the non-science major. Although the major emphasis of this course is on the inheritance of traits in humans, topics ranging from basic cell reproduction through gamete production and early developmental stages are also covered. Classical genetics, in both humans and other organisms, including both chromosomal and gene genetics, as well as population genetics, molecular genetics and application of genetics to biotechnology and genetic engineering are discussed. The laboratory is intended to give the student "hands-on" experience in making observations, performing experiments and working with scientific equipment. Topics to be covered in the laboratory include studying prepared slides, performing genetic crosses, activating genes in bacteria, isolating DNA and learning about DNA fingerprinting. 4 credits.

103. Environmental Science. Designed for non-science majors, the course serves as an introduction to ecological principles and their applications to understanding the causes and current status of environmental problems. Options for dealing with these problems are evaluated. Possible topics for discussion are overpopulation, food and water resources, ozone depletion, global warming, deforestation, acid rain, biodiversity, erosion, loss of wetlands, energy sources, pollution, eutrophication and waste disposal. Laboratory exercises are designed to illustrate ecological concepts presented in lecture. 4 credits.

111. General Biology I. A rigorous study of basic biological principles, which is designed for science majors. Topics emphasized include cell biology, genetics, taxonomy, histology, and evolution. Must be taken concurrently with Biology 113. 3 credits.

112. General Biology II. This course, also rigorous and designed for science majors, covers concepts in physiology, botany, embryology, and ecology. Must be taken concurrently with Biology 114. 3 credits.

113. General Biology I Laboratory. Laboratory exercises include enzyme kinetics, carbohydrate analysis, isolation and identification of plant pigments, microscopy, and histological techniques. Must be taken concurrently with Biology 111. 1 credit.

114. General Biology II Laboratory. Laboratory exercises include shark anatomy, invertebrate dissection, animal development, plant development in angiosperms, Stomate response to environmental changes, animal taxonomy, and an ecological field study. Must be taken concurrently with Biology 112. 1 credit.

201. Genetics. A study of the principles, mechanisms and concepts of classical and molecular genetics. The laboratory stresses key concepts of genetics utilizing both classical and molecular approaches. Laboratory exercises include analysis of nucleic acids, genetic crosses, and studies of bacteria, bacteriophages and plasmids. Additional Prerequisites: one year of chemistry or permission. 4 credits.

212. *Animal Behavior.* A study of the basic concepts of invertebrate and vertebrate behavior with emphasis on the development, genetics, physiology and evolution of behavior. Laboratory exercises include ethogram construction, avian foraging, aggressive display analysis and estrous cycle regulation. 4 credits.

221. *Mammalian Anatomy.* Comparative anatomy with special attention to the structure and function of mammalian systems and special references to humans. Intensive laboratory work involves dissections and demonstrations using the cat as a model. 4 credits.

222. *Human Physiology.* The design of this course is intended to impart an understanding of the basic concepts of human physiology with emphasis on neuromuscular, cardiovascular, and endocrine physiology. Laboratory exercises place emphasis on effective experimental designs and data analysis in the study of physiological mechanisms. Lab exercises cover such topics as muscle contraction measurements, spirometry, and EKG analysis. 4 credits. Does not fulfill a biology major requirement.

231. Neurobiology. This course takes an in-depth look at the biological and physiological processes that give rise to complexity of the nervous system and ultimately allow for complex function. It examines the biology of vertebrate nervous systems, with particular emphasis on the human nervous system. Topics include cellular and molecular biology of the neuron, neuroanatomy, neurophysiology, nervous system development and plasticity, mechanisms of learning and memory, and sensory and motor systems. 4 credits.

302. Plant Diversity. The development and diversity of fungi, algae and land plants and the relationships between them. Field and laboratory work familiarizes the student with the structure and reproduction of algae and plants and with the identification and pollination of flowering plants in the local flora. 4 credits.

304. Developmental Biology. An organismal and molecular approach to the study of animal development using typical invertebrate and vertebrate organisms. The laboratory includes the study of slides as well as experiments on fertilization, regeneration

and metamorphosis. Additional Prerequisite: BIO 201 or permission. Writing process. 4 credits.

305. Cell and Tissue Biology. A study of cell ultrastructure and the microscopic anatomy of vertebrate tissues, including the structure and function of membranes and organelles, cell motility and excitability, and vertebrate tissue similarities and specialization in relation to function. Laboratory includes the preparation and staining of sections using selected histochemical and histological procedures as well as a variety of microscopic techniques. 4 credits.

306. Microbiology. A study of the morphology, physiology and biochemistry of representative microorganisms. The laboratory emphasizes basic bacteriological techniques and procedures. Additional Prerequisites: three semesters of chemistry or permission. 4 credits.

307. Plant Physiology. A study of the functioning of plants, with emphasis on vascular plants. Additional Prerequisite: three semesters of chemistry or permission. Writing process. 4 credits.

312. Ecology I. An examination of the basic concepts of ecology with extensive laboratory work and field experiences in freshwater and terrestrial ecosystems. Writing process. 4 credits.

322. Vertebrate Physiology. A study of the principles of vertebrate body function, with emphasis on the mechanisms by which cells and organs perform their functions and the interactions of the various organs in maintaining total body function. Additional Prerequisite: One semester of chemistry or permission. Writing process. 4 credits.

323. Introduction to Immunology. An introduction to the anatomical, physiological and biochemical factors underlying the immune response. The course begins with a discussion of non-specific immunity, cellular immunity and antibody-mediated immune responses. The course then moves into a study of contemporary immunological topics which are discussed with respect to major research papers in each area. Topics include autoimmunity, histocompatibility, immunogenetics and acquired immune deficiencies. Additional Prerequisites: BIO 201, CHM 111, 113 or equivalent or permission. 4 credits.

324. Invertebrate Physiology. A study of many of the invertebrate phyla, concentrating on the physiological mechanisms controlling movement, metabolism, information, and control and reproduction. Writing process. 4 credits.

360. The Teaching of Biology in Secondary Schools. A course designed for students seeking certification to teach biology in secondary education. Responsibilities include assisting in the preparation of materials and equipment for lab; supervision of lab work; and preparation, administration, and evaluation of quizzes and lab tests. Prerequisite: permission of the instructor. 1 credit.

404. *Electron Microscopy.* An introduction to the use of techniques for scanning and transmission electron microscopic studies. Through laboratory experience the students will learn the proper use, application and limitations of the appropriate instruments. Additional Prerequisite: BIO 305 or permission of instructor. 4 credits.

Lebanon Valley College

409. *Ecology II.* An intensive study of ecosystem ecology, examining the interactions of biotic and abiotic factors within freshwater and terrestrial ecosystems, this course will examine recent research to demonstrate how ecosystems respond to anthropogenic influences. 4 credits.

499. Seminar. Each senior student is required to do independent library research on an assigned topic and to make an oral presentation to the biology faculty and students. This course may be repeated. 1 or 2 credits.

Biochemistry and Molecular Biology Program

The Biology Department offers a biochemistry and molecular biology program in conjunction with the Chemistry Department, described on page 61. The major in biochemistry and molecular biology is an interdisciplinary program that provides an opportunity for interested students to engage in a comprehensive study of the chemical basis of biological processes. It is designed to prepare students for advanced study in medical, dental and other professional schools, for graduate programs in a variety of subjects including biochemistry, clinical chemistry, pharmacology, molecular biology, genetics, microbiology, and physiology and for research positions in industrial, academic and government laboratories.

Degree Requirements:

Degree: Bachelor of Science with a major in biochemistry and molecular biology.

Major: BIO 111,112, 113, 114, 201; CHM 111, 112, 115, 116, 213, 214, 215, 216; BCMB 401, 421, 422, 430, 499; MAS 161; PHY 103/105, 104/106 or 111, 112 (51 credits); nine credits from BIO 304, 305, 306, 307, 322, 323, 404 and CHM 305, 306, 307, 308, 311.

Courses in Biochemistry and Molecular Biology (BCMB):

401. *Molecular Biology.* Gene structure, function and regulation at the molecular level in prokaryotic and eukaryotic organisms. Recombinant DNA techniques (genetic engineering) and gene sequencing are covered in detail. Prerequisite: Three semesters of chemistry and BIO 201 or permission of the instructor. 4 credits.

421, 422. Biochemistry I, II. The study of the chemistry of proteins, lipids and carbohydrates. Topics covered include amino acid chemistry, protein structure, molecular weight determination, ligand binding, enzyme kinetics, enzyme and coenzyme mechanisms, membrane systems, membrane transport, intermediary metabolism, metabolic control, electron transport and oxidative phosphorylation. Prerequisites: CHM 214, 216 and 312 or permission. 3 credits per semester.

430. Biochemistry Laboratory. Investigations of the properties of proteins, nucleic acids, carbohydrates and lipids. Prerequisites: CHM 214, 216. 1 credit.

499. Biochemistry Seminar. Readings, discussions and reports on special topics in biochemistry. 1 credit.

Psychobiology Program

The major in psychobiology is offered jointly by the Departments of Biology and Psychology, described on pages 46 and 155. This interdisciplinary major emphasizes

the physiological substrates and consequences of behavior. Consisting of a combination of psychology and biology course work, the program prepares students for graduate study in medicine, veterinary medicine, graduate programs in psychology, animal behavior, physiological psychology, psychopharmacology, behavior genetics and neuroscience, as well as research positions in industry, universities, hospitals and government laboratories.

Degree Requirements:

Degree: Bachelor of Science with a major in psychobiology.

Major: BIO 111, 112, 113, 114, 212, 322 or 324 (16 credits); PSY 111, 211, 212, 285 (14 credits); PBI or PSY 378, 379 (4 credits); BIO 499 or PBI 499; CHM 111, 112, 113, 114 (8 credits); MAS 161 or 170; plus 8 additional credits in the sciences in consultation with advisor. 54 total credits.

Courses in Psychobiology (PBI):

378. Behavioral Neuroscience. A study of the biological basis (substrates) of behavioral processes. The course focuses on the physiology of reflexes, sensation and perception, learning and memory, sleep, ingestive behaviors, emotion and psychopathology. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor. 3 credits. [Cross-listed as PSY 378.]

379. Behavioral Neuroscience Laboratory. Students will be introduced to methods used in the study of the nervous system and its influence on behavior. Lab work will include collecting, analyzing, and reporting data from physiological studies, as well as sheep brain dissection and stereotaxic neurosurgery. In addition, students must complete an APA style proposal for an individual research project. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor; students must also have either completed or be currently enrolled in PSY 378. 1 credit. [Cross-listed as PSY 379.]

499. Psychobiology Seminar. Readings, discussions and reports on selected topics in psychobiology. Prerequisite: permission. This course may be repeated. 1 credit.

Faculty

Kristen L. Boeshore, assistant professor of biology.

Ph.D., Case Western Reserve University.

She teaches developmental biology and general biology. Her research interests focus on development and regeneration of the nervous system.

Robert Carey, assistant professor of biology.

Ph.D., The Pennsylvania State University.

He teaches genetics, microbiology, and general biology. His research focuses on the evolutionary genetics of plant gene families and how the cell wall modifying proteins encoded by some of these families are involved in plant development.

Dale J. Erskine, professor of biology. Chairperson.

Ph.D., University of Oklahoma.

He teaches vertebrate physiology, human biology, AIDS, evolution, and general biology. His research interests are in temperature regulation and thermal tolerance.

Stacy A. Goodman, professor of biology.

Ph.D., The Pennsylvania State University.

She teaches general biology, animal behavior, coordinates the general biology laboratories, and supervises the senior seminar. Her research interests include the functioning of carbonic anhydrase isozymes and the role of PDH kinase in sepsis.

Courtney M. Lappas, assistant professor of biology.

Ph.D., University of Virginia; Postdoctoral Fellow, NIAID, 2007

She teaches immunology, molecular biology and general biology. She is interested in T lymphocyte biology, with special emphasis on both the role played by T cell subsets in various inflammatory disorders and the potential use of adenosine analogs to modulate these untoward responses.

Rebecca A. Urban, visiting assistant professor of biology.

Ph.D., Binghamton University.

She teaches ecology, plant diversity, and general biology. Her research is on plant ecology with a focus on invasive species and freshwater macrophytes.

Allan F. Wolfe, professor of biology.

Ph.D., University of Vermont.

He teaches cell and tissue biology, invertebrate physiology, electron microscopy, and general biology, and directs independent study in cell biology using electron microscopic and histological techniques. His current research utilizes the brine shrimp, Artemia, to study the cell and tissue levels or organization of the digestive, reproductive and neurosensory systems.

Sidney Pollack, professor *emeritus* of biology. *Ph.D., University of Pennsylvania.*

Susan Verhoek, professor *emerita* of biology. *Ph.D., Cornell University.*

Stephen E. Williams, professor *emeritus* of biology. Ph.D., Washington University, St. Louis.

Paul L. Wolf, professor *emeritus* of biology. *Ph.D.*, *University of Delaware*.

Anna F. Tilberg, adjunct instructor in biology.

M.S., Millersville University

She served on the staff of the Milton Hershey Medical Center and teaches human biology and general biology laboratory.

DEPARTMENT OF BUSINESS AND ECONOMICS

The Department of Business and Economics offers programs leading to the Bachelor of Science degree in accounting, business administration, and health-care management, and the Bachelor of Arts degree in economics. A major in music business is also offered jointly with the Music Department. All programs are enhanced by the liberal arts core required of all Lebanon Valley College students. This interdisciplinary knowledge base is essential for assuming leadership positions in the changing environment.

Accounting and business administration students complete a common body of knowledge in close conformity with the national standards for the study of business as recommended by The Association of Collegiate Business Schools and Programs (ACBSP). This comprehensive background in business fundamentals helps graduates prepare for business careers and graduate school.

Economics students study the choices we must make in a world of resources that have competing uses. The major in economics includes preparation in accounting, political science and economics. Economics majors are typically preparing for graduate study or for a variety of entry-level positions in business and government.

Many major courses also cover selected liberal arts core requirements. Students are encouraged to use their 25–30 free electives to enrich and enhance their overall college resume. Students often add breadth or even double major within the Department, complete a complementary major or minor, complete for-credit internships, study abroad, or study in Philadelphia or Washington, DC. Students working closely with their academic advisor can take full advantage of these opportunities and still graduate on time.

Students have several study abroad options with business classes conducted in English. This includes programs at the London Metropolitan University; Monash University in Australia; the Umbra Institute in Perugia, Italy; and Waikato University in New Zealand. Students seeking to develop their foreign language skills beyond the introductory level have a number of programs to choose from. Most programs are bi-lingual, mixing classes in the native language with classes taught in English. The Philadelphia and Washington, DC programs combine academic study and pre-professional internships. A short stay study program is available each summer in Maastricht, The Netherlands.

The department is a member of the Association of Collegiate Business Schools and Programs (ACBSP) and the Middle Atlantic Association of Colleges of Business Administration (MAACBA).

Accounting Program

The program in accounting offers the Bachelor of Science degree in accounting. Majors receive an excellent foundation for seeking professional certification as a CPA or CMA. The accounting curriculum prepares students for careers in public accounting, government, industry or finance.

The curriculum includes an array of introductory, intermediate and advanced accounting topics integrated with courses in business and other supporting fields.

Degree Requirements:

Degree: Bachelor of Science with a major in accounting.

Major: Foundation Courses: ACT 161, 162; ECN 101, 102; MAS 111, 150 or 161;

Lebanon Valley College

MAS 170, 270 or 372; BUS 130, 160. Core Courses; BUS 230, 285, 340, 361, 371, 460, 485; ACT 251, 252, 353 or 455; two electives in accounting not to include ACT 400 (60 credits).

Minor: ACT 161, 162, 251, 252, 353 or 455, six credit hours of accounting electives not to include internship credit (21 credits).

Courses in Accounting (ACT):

161. Financial Accounting. Basic concepts of accounting including accounting for business transactions, preparation and use of financial statements, and measurement of owners' equity. 3 credits.

162. Managerial Accounting. Cost-volume-profit relationships, cost analysis, business segment contribution, profit planning and budgeting as a basis for managerial decision making. Prerequisite: ACT 161 with a minimum grade of "C–" or better. 3 credits.

251. *Intermediate Accounting I.* Study of the theory and development of generally accepted accounting principles as they relate to financial reporting; the application of these principles to the preparation of financial statements; special emphasis on revenue recognition as well as valuation, classification and disclosure of current assets. Prerequisite: ACT 162. 3 credits.

252. *Intermediate Accounting II.* Study of the application of accounting principles for noncurrent assets, long-term liabilities and stockholder's equity, including analysis of financial statements. Prerequisite: ACT 251 with a minimum grade of "C-" or better. 3 credits.

253. *Intermediate Accounting III.* This course is a continuation of ACT 252 with the study of the measurement and reporting of income taxes, pensions, leases, accounting changes, disclosure issues, the cash flow statement, and the effects of errors. The course also addresses international accounting standards as they compare to U.S. GAAP and international reporting issues for U.S. companies. Case study component. Strongly recommended for students planning to take the CPA exam. Prerequisite: ACT 252. 3 credits.

280. *Financial Fraud: Prevention and Detection.* This course explores the pervasiveness, causes, and types of financial crimes currently being encountered. Using text, discussion, problems, and case studies, the course identifies methods of fraud detection, investigation, and prevention. Prerequisites: ACT 162 or permission of the instructor. 3 credits.

351. Advanced Accounting. The emphasis of this course is on business combinations and consolidated financial statements. The course also addresses accounting principles applicable to partnerships, SEC reporting, insolvency, and fiduciaries. Prerequisite: ACT 252. 3 credits.

352. Governmental and Nonprofit Accounting. Basic concepts of fund and budgetary accounting used for financial activities of governmental units and not-for-profit organizations. Prerequisite: ACT 162. 3 credits.

353. Cost Accounting. Analysis and use of techniques for cost management and control; the accumulation and recording of the costs including job-order, process and standard cost systems, joint and by-product costing; contemporary topics such as activity based costing and just-in-time manufacturing. Prerequisite: ACT 162. 3 credits.

400. *Internship.* Practical and professional work experience related to the student's career interests, involving both on-site and faculty supervision. Generally limited to juniors and seniors. All internships are graded pass/fail. Prerequisites: 2.75 GPA, permission of the chairperson, completion of department's application form. 1-12 credits. Internship credit does not fulfill required electives in the major.

451. *Individual Income Tax.* Analysis of the federal income tax laws as applied to individuals; case problems, preparation of returns. Prerequisite: ACT 162. 3 credits.

452. Corporate Taxation. Analysis of the federal income tax laws as applied to corporations, partnerships and fiduciaries; case preparation of returns. Prerequisite: ACT 451. 3 credits.

455. *Auditing.* A study of the process of evaluation of internal controls and interpretation of financial information to permit an auditor to express a professional opinion on financial reports. Prerequisite: ACT 252. 3 credits.

Business Administration Program

This popular program offers the Bachelor of Science degree in business administration. This major is designed to prepare the student for a variety of entry-level and middle-management positions in industry, government and service organizations.

The business curriculum conforms closely to the national common body of knowledge recommended by The Association of Collegiate Business Schools and Programs (ACBSP) and provides a solid background in the fundamentals of business. Majors complete a general business curriculum that prepares them for a variety of positions. Students desiring more in-depth study in a specific area of business may select a focus area composed of optional courses. Such focus areas include human resource/labor relations, international relations, marketing and public relations, and organizational psychology.

Degree Requirements:

Degree: Bachelor of Science with a major in business administration.

Major: Foundation Courses; ECN 101, 102; ACT 161, 162; MAS 111, 150 or 161; 170, 270 or 372; BUS 130, 160. Core Courses; BUS 230, 285, 340, 350, 361, 371, 376, 383, 450, 460, 485. (57 credits.)

Minor: ECN 101; ACT 161; BUS 130, 230, 340, 371; BUS 285 or one 300/400 business elective not to include internship credit. (21 credits.)

Courses in Business (BUS):

130. *Modern Business Organizations.* The course focuses on understanding the composition of modern business organizations with respect to the value chain they are a part of, relationships with other organizations in the value chain, and the functions and processes organizations use to create and deliver value to customers, stakeholders, and society. The course includes an introduction to key business communication software. Prerequisites: freshman or sophomore standing only or by permission. 3 credits.

160. Computer Applications. An extensive introduction to spreadsheet, database, and Internet applications software as used in business. Through hands-on classroom instruction, computer-aided learning, and course project assignments, students learn the use of the major analytical software packages that are commonly used in business. The class teaches the basic principles of using this software to solve problems and to enhance critical thinking skills. 3 credits.

230. Principles of Management. A study of the management theory, organizational theory, and management skills as applied to the effective and efficient operation of both for-profit and not-for-profit entities. Emphasis is on the organization's structure, leadership, interpersonal relationships, and managerial functions. Prerequisites: Completion of BUS 130 or, for returning adults, degree completion students, and Health Care Management students, significant work experience. Accounting, business administration, and health care management majors need a cumulative GPA of 2.00 or greater in all foundation courses completed to date. 3 credits.

285. Organizational Communications. The development of writing, speaking and listening skills for business management. Prerequisites: ENG 111 and 112. Majors in accounting, business administration, and health care management need a cumulative GPA of 2.00 or greater in all foundation courses completed to date. Writing Process. 3 credits.

340. Principles of Marketing. An overview of marketing from the management perspective. Topics include marketing strategies, marketing research, consumer behavior, selecting target markets, developing, pricing, distributing and promoting products and services and non-profit marketing. Prerequisite: junior standing or permission. 3 credits.

341. Consumer & Organizational Buying Behavior. This course focuses on the analysis of the factors affecting the purchasing decision in the marketplace and the application of behavioral and social science concepts to the study of individual and group buying behavior. The course emphasizes the use of this understanding in making marketing mix decisions. Prerequisites: BUS 230 and BUS 340 or permission. 3 credits.

350. Organizational Behavior. A detailed study of theories and models of organizational behavior and development, with emphasis on the practical application of these models in the workplace to improve individual, group and organizational performance. Prerequisite: junior standing and BUS 130, or permission. 3 credits.

361. Principles of Finance. A study of financial management covering analysis of asset, liability and capital relationships and operations; management of current assets and working capital; capital planning and budgeting; capital structure and dividend policy; short and intermediate term financing; internal and external long term financing; and other financial topics. Prerequisite: ACT 162; ECN 101, 102. 3 credits.

362. Investments. An analysis of investment and its relation to other economic, legal and social institutions. The course includes discussion of investment principles, machinery, policy, management investment types and the development of portfolios for individuals and institutions. Prerequisite: BUS 361. 3 credits.

371. Business Law I. Elementary principles of law relating to the field of business. The course covers contracts, government regulation of business, consumer protection, bankruptcy, personal property, real estate, bailments, insurance and estates. 3 credits.

372. Business Law II. Elementary principles of law relating to business. Includes agency, employment, commercial paper, security devices, insurance, partnerships, corporation, estates and bankruptcy. 3 credits.

374. Personal Selling and Sales Management. The study of personal selling as a communication process and the management of the personal selling force. Emphasis is placed upon the development, implementation and evaluation of the sales presentation; and upon the role of the sales manager in staffing, compensating, motivating, controlling and evaluating the sales force. Effective oral and written communication is stressed. Prerequisite: BUS 340. 3 credits.

376. International Business Management. Studies management techniques and procedures in international and multinational organizations. Prerequisite: BUS 130, 340. 3 credits.

380. *Small Business Management.* A study of small business, including organization, staffing, production, marketing and profit planning. Cases are used extensively in presenting the course material. Prerequisite: ACT 162, BUS 130. 3 credits.

383. *Management Science.* An introduction to the techniques and models used in management science. Topics include forecasting, inventory control models, linear programming, product scheduling, and simulation. Prerequisites: MAS 150 and MAS 170 with a minimum grade of C- or better, BUS 130, ACT 161, 162. 3 credits.

400. *Internship.* Practical and professional work experience related to the student's career interests, involving both on-site and faculty supervision. Generally limited to juniors and seniors. All internships are graded pass/fail. Prerequisites: 2.75 GPA, permission of the chairperson, completion of department's application form. 1-12 credits.

420. Human Resource Management. This course examines the problems in effectively recruiting, selecting, training, developing, compensating and disciplining human resources. It includes discussions on both equal employment opportunity and labor-management relations. Prerequisite: BUS 130. 3 credits.

450. Business Ethics and Social Responsibility. This course examines the major ethical issues, social responsibilities, and ethical dilemmas facing business and business managers in today's global environment. Students develop an understanding of the difference between what is legal and what is ethical and clarify their approach to ethical issues. Prerequisites: BUS 130, BUS 230 or permission. 3 credits.

460. *Management Information Systems.* Examines data sources and the role of information in management planning, operations and control in various types of business environments. Treats information as a key organization resource parallel to people, money, materials and technology. Prerequisite: ACT 162, BUS 130 or permission. 3 credits.

461. Corporate Finance. The course is designed to meet the Society of Actuaries (SOA) standards for Validation through Educational Experience (VEE) in the area of corpo-

rate finance. The course covers topics that define the core concepts of corporate finance: financial instruments, sources of capital and their costs, dividend policy, capital structure, capital budgeting, financial performance assessment, exchange rate risk, hedging, and arbitrage. Prerequisite: BUS 361 or ASC 385. 3 credits.

485. Strategic Management. A capstone course to study administrative processes under conditions of uncertainty, integrating prior studies in management, accounting and economics. Uses case method and computer simulation. Prerequisites: BUS 130, 340, 361 and senior standing or permission. Writing process. Prerequisite: Designed for last semester seniors. Underclassmen admitted with permission of instructor and Chair. 3 credits.

Economics Program

The major in economics deals with decisions and choices made by individuals and firms and with the micro and macroeconomic consequences of those choices. Economists have a wide variety of employment opportunities in government and the private sector. The major includes courses in mathematics, political science and economics.

Degree Requirements:

Degree: Bachelor of Arts with a major in economics.

Major: Foundation Courses: PSC 110; one of three mathematics sequences: MAS 150, 161, or MAS 161, 162, or MAS 111, 112; MAS 170, 270 or 372; ECN 101 and 102. Core Courses: ECN 201, 202, 405, and four additional elective courses in economics at the 200 level or above, not including internship credit. (39 credits.)

Minor: ECN 101, 102, 201, 202, and two additional courses in economics at the 200 level or above, not including internship credit. (18 credits).

Courses in Economics (ECN):

101. Principles of Microeconomics. The course examines how individuals and firms make choices within the institution of free-market capitalism. Individuals decide how much of their time to spend working and what to buy with the earnings of their labor. Firms decide how much to produce and in some cases what price to charge for their goods. Together these choices determine what is produced, how it is produced, and for whom it is produced in our economic system. 3 credits.

102. Principles of Macroeconomics. This course extends the study of consumer and producer choices to discover how they affect the nation's economy. Macroeconomics deals with the economy as a whole as measured by the key variables of inflation, unemployment, and economic growth. Emphasis is on both Keynesian and classical theories and how they predict what monetary and fiscal policies can be used to affect these variables and reach national economic goals. 3 credits.

105. Essentials of Economics. This course examines economics from both the microeconomic and macroeconomic perspectives. The course covers the basic principles of economics, including the problem of scarcity, economic systems and models, supply, demand, and market equilibrium, competition and monopoly, the banking system, monetary policy and inflation, fiscal policy, deficits, economic growth, and international trade. 3 credits. **201.** *Intermediate Microeconomic Analysis.* This course covers the major theories of mainstream neoclassical economics. There is intensive study of the models of consumer and firm behavior that permit understanding of how the prices and quantities of goods and services are determined in a free market capitalistic system. The implications for social welfare, and equity and efficiency issues that are inherent in the free-market system are emphasized. Prerequisites: ECN 101 and 102. 3 credits. Economics majors need a cumulative GPA of 2.00 in all foundation courses completed to date.

202. *Intermediate Macroeconomic Analysis.* In this course, students develop a model of the macroeconomy which permits them to analyze the nature of the business cycle. The assumptions built into the model can be altered, rendering it capable of examining the macroeconomy from various theoretical viewpoints. In addition to unemployment, inflation and economic growth, the course covers real business cycles, the macroeconomic implications of free trade, and emphasizes the microeconomic foundations of macroeconomics. Prerequisites: ECN 101 and 102. 3 credits. Economics majors need a cumulative GPA of 2.00 in all foundation courses completed to date.

250. *Public Choice Economics.* This course concerns itself with how individuals and groups make decisions in the context of the family, interest groups, bureaucracies and the government. It goes beyond individual choice and private markets to group interests and activities. It emphasizes the ethical and political nature of all economic choices. Prerequisites: ECN 101 and 102. 3 credits.

312. Money and Banking. The study of the nature and functions of money and credit, including the development and role of commercial and central banking, structures of the Federal Reserve System, and monetary and banking theory, policy and practice. The course considers the political nature of money and the tension between fiscal and monetary policy making. Prerequisites: ECN 101 and 102. 3 credits.

316. Environmental Economics. Environmental economics stresses the co-evolution of human preferences, understanding, technology and cultural organization. This approach differs from that of conventional economics and conventional ecology in the importance it attaches to environment-economy interactions. The role that our economic system plays in decisions affecting the sustainability of our ecosystems is emphasized. Prerequisites: ECN 101 and 102. 3 credits.

317. Natural Resource Economics. Natural resource economics refers to the application of economic principles to the management of natural resources. It involves the study of resource use and conservation, utilization rates of renewable and non-renewable resources, the issue of economy size and the limits to growth, the natural resource economic issues of development versus preservation, and the issue of natural resource accounting. Prerequisite: ECN 101 and ECN 102. 3 credits.

321. Public Finance. This course extends the study of public economics to its application in the principles of taxation and public expenditures. Topics include the structure of the Federal Budget, the national debt and fiscal deficits, but also state and local financing and the division of responsibilities between the federal and local governments. Prerequisites: ECN 101 and 102. Writing process. 3 credits.

331. International Finance. This course extends the Keynesian Macroeconomic model to incorporate international financial flows; the determinants of the balance of payments; foreign exchange markets; exchange rate regimes; history of international economic institutions; and macroeconomic policy options. The course contains lectures, student presentations, theoretical problem solving, economic analysis of real-world events, reading, analyzing, and writing on academic and current event articles. Prerequisite: ECN 101 and ECN 102. 3 credits.

332. International Trade. This course introduces the theory and practice of international economic relations. It includes, not only the history and purpose of trade and the traditional theory of the gains from trade, but also the more modern theory of trade with imperfect competition. The history and nature of the institutional structures of trade (World Trade Organization) are covered. Prerequisites: ECN 101 and 102. Writing process. 3 credits.

333. Game Theory: Economic Applications. Game theory studies how "rational" players should act and interact in strategic situations. In economics, players include people, firms, or countries. Game theory also helps predict and explain players' actions. Cooperative and non-cooperative games are used to measure behavior and identify ideal strategies in situations as diverse as industrial negotiations, marriage bargaining, and international environmental agreements. Prerequisites: ECN 201 or permission. 3 credits.

400. *Internship.* Practical and professional work experience related to the student's career interests, involving both on-site and faculty supervision. Generally limited to juniors and seniors. All internships are graded pass/fail. Prerequisites: 2.75 GPA, permission of the chairperson, completion of department's application form. 1-12 credits. Internship credit does not fulfill required electives in the major.

405. *Applied Econometrics.* In this course students apply statistical techniques to study the quantitative measurement and analysis of actual economic phenomena, describing economic relationships, and test hypothesis about economic theory and forecasting future economic events. Applications include examining violations of the classical assumptions and testing for specification errors. Prerequisite: MAS 170, 270 or 372; ECN 201 and ECN 202, or ASC 385; or permission of the instructor. 3 credits.

410. Senior Seminar. This small seminar course is a reading course in support of the research interests of the professor, the student, or both. The content and structure of the course will depend on the research interests of the professor, but will always require from each student a major paper related to this area. Reading and critiquing articles from refereed economic journals and the popular press are also included. Prerequisites: ECN 201 and ECN 202 and junior standing. Writing process. 3 credits.

Health Care Management Program

The major in health care management is designed for people in health care fields who possess an associate degree or diploma and professional certification. These qualifications are required for admission to the program. The program combines studies in the liberal arts and management, plus business practices common to the health care industry.

Degree Requirements:

Degree: Bachelor of Science with a major in health care management.

Major: Health Care Management Foundation Courses: ECN 101, 102; ACT 161, 162; MAS 170, 270 OR 372; BUS 130 (may be waived for prior work experience). Core Courses: ENG 111; SOC 324; BUS 215, 230, 285, 340, 350, 371, 420, 450 (or PHL 160), 487; 12-15 credits in sociology, psychology, or other disciplines approved by the director of continuing education (at least 6 credits in courses at the 200 level or higher). (63-66 credits total).

Admission to this degree program is open only to adults who have completed successfully an accredited diploma or associate degree program with certification by a state governmental agency or a national professional accrediting organization in the following fields: Clinical Medical Assistant, Cytotechnologist, Dental Hygienist, Emergency Medical Technician, Medical Laboratory Technician, Nuclear Medicine Technologist, Occupational Therapy Assistant, Physical Therapy Assistant, Radiologic Technologist, Registered Nurse, Respiratory Therapist, Clinical Perfusionist, Surgical Technician.

Courses in Health Care Management (BUS):

215. *Health Care Finance.* An examination of the financial issues of health and medical care to determine how to provide the best health care to the most people in a cost-effective manner. Examination of the principal elements of health care, including the physician, the hospital, and the pharmaceutical industry, as well as the influence of gov-ernment and the insurance industry. Prerequisites: ECN 101, 102. 3 credits.

487. *Health Care Management.* A capstone course to study the administrative processes of America's health care industry including institutional infrastructure, governance systems, financial systems, personnel systems, quality controls, nursing and clinical services, and marketing. The course integrates prior study in health care, management, accounting, and economics. Students will develop problem solving skills and an appropriate management style. Prerequisite: senior standing or permission. 3 credits.

Faculty

Tami L. Barton, assistant professor of accounting.

M.B.A. (Finance) St. Joseph's University.

A CPA, Barton has professional experience in accounting, income tax, financial reporting, auditing, business valuation in public accounting, and extensive experience in corporate accounting. She teaches courses in financial accounting, managerial accounting, intermediate accounting, advanced accounting, and auditing.

Treva Clark, assistant professor of business administration.

M.B.A., Loyola College of Pennsylvania.

Clark has extensive experience in international business, both in business development for a major computer company and as a consultant. She teaches international business and organizational communications, and is pursuing her doctorate in educational administration through the University of Pittsburgh.

Will Delavan, assistant professor of economics.

Ph.D., The Pennsylvania State University.

Delavan's research interests are in the areas of agricultural, environmental, and regional economics, and he has presented and published in all three areas. Delavan teaches introductory and intermediate macroeconomics, international trade, public finance, and the senior seminar.

Robert W. Leonard, professor of business administration.

M.B.A., The Ohio State University.

Leonard has been a management consultant for 20 years, working with over 300 organizations. He has received numerous state and federal grants for his work with nonprofit organizations and has owned his own nonprofit training corporation since 1986. He has completed all doctoral coursework at The Ohio State University in organizational behavior and social psychology.

Neil Perry, associate professor of economics.

Ph. D., La Trobe University.

Perry's research interests include environmental economics with specialization in the economics of biodiversity conservation, game theory, mathematical economics, and environmental taxation. He has published in the Journal of Economic Perspectives and serves as a referee for Ecological Economics and History of Economic Review. Perry teaches introductory and intermediate microeconomics, game theory, environmental and ecological economics, the senior seminar, and selected topics courses.

David V. Rudd, professor of business administration. Chairperson.

Ph.D., George Washington University.

Rudd's research interests are in the application of marketing principles, especially direct marketing, to the problems of social service delivery. He teaches marketing courses.

Gail Sanderson, professor of accounting.

M.B.A., Boston University.

A CPA, Sanderson has professional experience in accounting, income tax, computer systems analysis and design. She teaches courses in financial and managerial accounting, intermediate accounting, and government and not-for-profit accounting.

David M. Setley, assistant professor of business administration.

D.B.A. Business Administration, Nova Southeastern University.

Setley is an experienced and successful entrepreneur who started and built three companies. He brings that experience with him along with his teaching experience in the areas of management, leadership, entrepreneurship, and business ethics.

Edward J. Sullivan, associate professor of business administration and economics. *Ph.D., The Pennsylvania State University.*

Sullivan has published articles in business and economic journals and specializes in monetary, macro and financial economics. He teaches courses in principles of finance, management science, money and banking, and economics.

Barney T. Raffield III, professor emeritus of business administration.

Ph.D., Union Graduate School.

Raffield has been named a Fulbright Scholar to Ukraine at the State Academy of Management in Donetsk. He teaches marketing and international business and is also a faculty member for the M.B.A. program and consults with area businesses.

Karen M. Dielmann, adjunct instructor in business administration.

D.Ed., The Pennsylvania State University.

Dielmann has extensive experience in human resource areas. She teaches human resource management and diversity in the workforce courses.

Kristen Evans-Vaughen, adjunct instructor in business administration.

M.S., Shippensburg University.

Evans-Vaughen teaches courses in management information systems and computer applications.

Douglas C. Gautsch, adjunct instructor in business administration.

M.B.A., Lebanon Valley College.

Gautsch works in logistical/transportation business development. He teaches courses in business and management.

Morris M. Miller, adjunct instructor in business administration.

M.B.A., York College of Pennsylvania.

Miller teaches courses in computer applications and management information systems.

Thomas J. Murray, adjunct instructor in business administration.

M.B.A., Lebanon Valley College.

Murray brings to the classroom extensive experience in project management and strategic planning. He teaches courses in computer applications, principles of business, international business, and strategic management.

Irwin H. Siegel, adjunct instructor in business law and management.

J.D. Dickinson School of Law; D.Ed., The Pennsylvania State University.

Siegel teaches business law, principles of management, and business ethics and social responsibility courses.

Francis J. Vottero, adjunct instructor in economics.

M.A. The Pennsylvania State University.

Vottero teaches principles of microeconomics and principles of macroeconomics.

Michael C. Zeigler, adjunct instructor in business administration.

M.Ed., The Pennsylvania State University.

Zeigler works for the college in the computer services department as director of client services. He teaches courses in management information systems and computer applications.

DEPARTMENT OF CHEMISTRY

Chemistry Program

Chemistry is the central science in that it provides the fundamental understanding needed for protecting our environment, maximizing the yield from limited natural resources, improving our health, and creating new materials for tomorrow's products. Indeed, chemistry is essential to understanding life itself.

Career opportunities in chemistry are numerous and diverse. Many students enter academic, industrial or governmental laboratories where they find positions in research and development, analysis, or quality control. Possibilities outside the laboratory include teaching, sales, marketing, technical writing, business and law. Many chemistry students earn doctoral degrees in chemistry or biochemistry or in the areas of medicine, dentistry or veterinary medicine.

The Department of Chemistry is located on the upper two floors of the newly renovated Neidig-Garber Science Center. Among the major scientific equipment holdings used by students in laboratory courses and in research are a liquid chromatograph-mass spectrometer (LC-MS-MS), a superconducting nuclear magnetic resonance spectrometer (FTNMR), a MALDI-TOF mass spectrometer, a liquid scintillation counter, an infrared spectrometer (FTIR), high-performance liquid chromatographic (HPLC) systems, UV-visible spectrophotometers, a laser-Raman spectrophotometer, a gas chromatograph-mass spectrometer (GC-MS), a chemisorption analyzer, and an atomic absorption spectrophotometer. Most laboratories have computers on the benchtop for data entry and analysis and for molecular modeling.

The department actively encourages students to discover the excitement and challenge of laboratory research. Research programs are conducted during both the academic year and the summer. Students are paid for summer research either from college funds or from external grants that faculty receive to support their projects. The department also maintains an active internship program, actively assisting students in finding opportunities in industrial or academic laboratories.

The department offers two degrees to those interested in chemistry and one for those interested in biochemistry. The Bachelor of Science in Chemistry is the more demanding of the two degrees in chemistry and is certified by the American Chemical Society. This degree has a required research component and is recommended for students who wish to become practicing chemists or enroll in graduate school. Other students opt for the standard Bachelor of Science, majoring in chemistry.

The major in biochemistry is offered jointly with the Biology Department. For the major program and course descriptions in biochemistry, see page 50.

The chemistry department also participates in the 3+2 Engineering Program and directs the chemical engineering track. For details, see Cooperative Programs on page 29.

Degree Requirements:

Degrees: Bachelor of Science in Chemistry, Bachelor of Science with a major in chemistry.

Majors: (B.S. in Chemistry) CHM 111, 112, 115, 116, 213, 214, 215, 216, 222, 230, 305, 306, 307, 308, 311, 312, 321, 322, 411; BCMB 421; three credits from CHM 412–

490 or 590 or BCMB 422; four credits of CHM 510; MAS 161, 162; PHY 111, 112 (63-64 credits).

(B.S., major in chemistry) CHM 111, 112, 115, 116, 213, 214, 215, 216, 222, 230, 305, 306, 307, 308, 311, 312, 321, 322; MAS 161, 162; PHY 111, 112; (50–51 credits).

Minor: CHM 111, 112 and either CHM 113, 114 or CHM 115, 116; 12 credits from CHM 213, 214, 222, 305, 306, 311, 312,411 or BCMB 421, 422; three credits from CHM 215, 216, 230, 307, 308, 321, 322 or BCMB 430.

Secondary Teacher Certification: In addition to a major in chemistry, students seeking secondary certification in chemistry must take BIO 111, 112; and BCMB 421. Certification candidates must also complete 33 credits in additional required coursework. See the Education Department section on pages 84–85 for additional information.

Courses in Chemistry (CHM):

100. Introduction to Chemistry. An introduction to the principles of chemistry including mathematical tools, atomic structure, stoichiometry, elementary concepts of equilibrium, bonding, and organic chemistry. Intended for non-science majors. Laboratory experience included. 4 credits. Students who have received credit for CHM 111 may not take CHM 100.

111, 112. Principles of Chemistry I, II. An introduction to chemistry for the science major. First semester topics include atomic and molecular structure, chemical reactions, calculations involving chemical concentrations, gas laws and bonding. Second semester covers kinetics, acids and bases, equilibrium, oxidation-reduction chemistry, thermodynamics, electrochemistry, and nuclear chemistry. Prerequisite: one year of high school chemistry for CHM 111; and CHM 111 for CHM 112 or permission. 3 credits per semester.

113, 114. Introductory Laboratory I, II. Laboratory courses to accompany 111 and 112. Experiments cover stoichiometry, gas laws, quantitative analysis, equilibrium, electrochemistry, chemical synthesis, and the use of computers for collecting data. Students are introduced to instrumentation including pH meters, UV-visible spectrophotometers, and mass spectrometers. Prerequisite or corequisite: CHM 111 for CHM 113 and CHM 112 for CHM 114. 1 credit per semester.

115, 116. Techniques of Chemistry I, II. Extended projects involving the synthesis of inorganic and organic compounds that require the development of a procedure from published literature methods. The prepared compounds are then analyzed using quantitative analytical techniques, as well as introductory spectroscopic techniques. 1 credit per semester.

213, 214. Organic Chemistry I, II. An introduction to the principles of organic chemistry. The focus of the course is on the structure of organic molecules and how the structure of various functional groups affects their reactivity. The concepts of reactivity, structure and mechanism are applied to organic synthesis. Prerequisite: CHM 112 for CHM 213; and CHM 213 for CHM 214. 3 credits per semester.

215, 216. Organic Laboratory I, II. An introduction to the practice of classical organic chemistry and modern instrumental organic chemistry. The techniques of organic syn-

thesis are taught along with instrumental methods including infrared, nuclear magnetic resonance, and mass spectrometry. Prerequisite or corequisite: CHM 114 and CHM 213 for CHM 215 and CHM 214 for CHM 216. 1 credit per semester.

222. Introductory Inorganic Chemistry. The application of elementary principles of chemistry to provide a basis for understanding the physical and chemical properties of the elements. Topics include periodicity, acidity or basicity of metal cations and oxoanions, precipitation reactions, oxidation-reduction chemistry, and the structures of solids. Prerequisite: CHM 112. 3 credits.

230. Inorganic Chemistry Laboratory. Students will learn a number of advanced synthetic methods including inert atmosphere manipulations, high vacuum and temperature dehydrations, mixed solvent crystallizations, and photochemical transformations. Writing process. Corequisite: CHM 222. 1 credit.

305. Analytical Chemistry. Topics for this course include statistical methods; activity and activity coefficients; chemical equilibria involving complex systems; volumetric analyses including acid/base, precipitation, redox, and compleximetric titrations; principles of electrochemistry, potentiometry, electrogravimetry, coulometry, and voltammetry. Prerequisites: CHM 112 and MAS 161. 3 credits.

306. Instrumental Analysis. Basic types of chemical instrumentation and their applications in analytical chemistry are examined. These include gas and liquid chromatography; infrared, UV-VIS, fluorescence, atomic absorption, and plasma emission spectrophotometry; nuclear magnetic resonance and mass spectrometry. Prerequisites: CHM 214. 3 credits.

307. Quantitative Analysis Laboratory. Volumetric, spectrophotometric, and electrochemical methods are applied to the analysis of unknowns. Prerequisite or corequisite: CHM 305. 1 credit.

308. Instrumental Analysis Laboratory. Chemical instrumentation is utilized in analytical method development and analysis. Prerequisite or corequisite: CHM 306. 1 credit.

311, 312. Physical Chemistry I, II. The study of chemical systems from a molecular perspective. Basic concepts of quantum chemistry applied to atomic and molecular structure. Thermodynamic laws and functions applied to mechanical, thermal, and material equilibrium in gases, liquids, and solids. Also included are electrochemical systems, as well as kinetic and transport processes occurring in gases, in solutions, and at solid surfaces. Prerequisites: CHM 112, MAS 162, and PHY 104 or 112 for CHM 311 and CHM 311 for CHM 312. 3 credits per semester.

321, 322. Physical Laboratory I, II. Experimental study of the principles of physical chemistry. Work involves spectroscopy (IR, UV/VIS, fluorescence, Raman, and NMR), calorimetry, refractometry, conductivity, and viscometry applied to atomic and molecular structure, thermodynamics, phase and reaction equilibrium, and chemical kinetics. Prerequisite or corequisite: CHM 311 for CHM 321 and CHM 312 for CHM 322. Writing process. 1 credit per semester.

360. The Teaching of Chemistry in Secondary Schools. A course designed for students seeking certification to teach chemistry in secondary education. Topics include evaluation of laboratory experiments, demonstrations, textbooks, and computer software. Prerequisites: CHM 112, 114. 3 credits.

411. Advanced Inorganic Chemistry. A study of bonding theories, molecular structure, spectroscopy and reaction mechanisms with special emphasis on transition metal complexes. Prerequisite: CHM 312. 3 credits.

412. Advanced Physical Chemistry. In-depth treatment of the experimental and theoretical aspects of chemical kinetics and reaction dynamics. Reactions occurring in the gas phase, in the solution phase, and at solid surfaces will be discussed with examples being drawn from catalysis, environmental/atmospheric chemistry, and astrochemistry. Prerequisite or corequisite: CHM 312 or permission of the instructor. 3 credits.

414. *Advanced Organic Chemistry.* A study of advanced topics in the field of organic chemistry. The course covers mechanistic and synthetic chemistry with an emphasis on current and classical organic chemical literature. Prerequisites: CHM 214. 3 credits

421. *Chemometrics.* The application of multivariate statistics to experimental design and data analysis. Topics include experimental design, pattern recognition, calibration, optimization, signal processing, and peak resolution. Some familiarity with computers and chemical instrumentation is recommended. Prerequisite: CHM 112. 3 credits

510. Chemical Research. Chemical research conducted under the supervision of a faculty member. This course introduces the students to the methods and analysis involved in research. A major written report and an oral presentation are required. Prerequisites or corequisites: CHM 308 or 321 and senior standing or permission. 2 credits per semester. 3 credits if pursuing departmental honors.

Course in Science (SCI):

100. Introduction to Science. The study of scientific principles and experiments applicable to a person's everyday experiences. Student projects are selected from the areas of biology, chemistry and physics. The course is open to all students and is appropriate for those intending to teach elementary school. Laboratory experience included. 4 credits.

Faculty

Marc A. Harris, associate professor of chemistry.

Ph.D., University of Nevada, Reno.

Research interests include the synthesis of macrocyclic azacrown and crown ether bipyridine analogues and their coordination complexes with Pt(II), Pd(II), and Rh(I). These complexes are investigated for their host-guest interactions with both small alkali metal cations and organic substrates.

Anderson L. Marsh, assistant professor of chemistry.

Ph.D., University of Michigan; postdoctoral study, University of California, Berkeley. Physical Chemistry. Research interests are in the areas of nanoscience and surface science. Current projects involve utilizing metal nanocatalysts for green hydrogenation reactions, probing laser-induced photoreactions for amino acid synthesis on dust surfaces in the interstellar medium, and analyzing the biocompatibility and environmental stability of semiconductor nanocrystals.

Owen A. Moe, professor of chemistry. Chairperson.

Ph.D., Purdue University; postdoctoral study, Cornell University.

Analytical Chemistry/Biochemistry. Research interests in biochemistry involve elucidation of enzyme active site topography and function using enzyme kinetics, protein modification, and mass spectrometry. Research projects in analytical chemistry include studies of the solvent dependence of oxidation-reduction reactions of organic molecules and the applications of MALDI mass spectrometry to the study of proteins.

Walter A. Patton, associate professor of chemistry.

Ph.D., Lehigh University; postdoctoral study, National Institutes of Health.

Research interests include the elucidation of structure-function relationships in proteins. Most recently his work focuses on the features of E. coli GMP synthetase that facilitate ammonia transfer from a domain where it is synthesized to the domain in which it is utilized. His work integrates chemical, biochemical, and molecular biological methods (e.g. polymerase chain reaction) to make designer proteins at the DNA level. Once expressed in bacteria, these proteins are purified in order to study their function.

Timothy J. Peelen, assistant professor of chemistry.

Ph.D., University of Pittsburgh; postdoctoral study, University of Wisconsin-Madison. Research interests focus on the development of asymmetric reactions catalyzed by simple organic molecules (organocatalysts). The reaction mechanisms of organocatalyzed reactions are studied by using kinetics and by structural analysis of reaction intermediates.

Donald B. Dahlberg, professor emeritus of chemistry.

Ph.D., Cornell University

Research interests in the area of chemometrics, the application of advanced statistical methods to chemistry. He works to apply chemometrics to analytical methods used in food and pharmaceutical industrial laboratories. He also serves as internship advisor in the natural sciences.

Cynthia R. Johnston, lecturer in chemistry.

B.S., Lebanon Valley College.

Johnston is focusing her efforts on the development of science curricula for the elementary school classroom and on instructing those studying to teach in the elementary school.



CITIZENSHIP EDUCATION PROGRAM

The College offers a program for students seeking certification to teach Citizenship Education in the secondary schools. The program includes three required components: the Citizenship Education core, the secondary education core, and a major in one of the following disciplines: history or political science. Graduation requirements for each of these majors are noted in this catalog under the appropriate department. There is no major in citizenship education. Dr. James H. Broussard is the coordinator of the Citizenship Education Certification Program.

Program Requirements:

Citizenship Education core courses: ECN 101, 102; H1S 103, 105, 125, 126, 202; PSC 110, 210, 245, an upper division course in American government (PSC 330 State and Local Politics recommended). (33 credits).

Secondary Education core courses: Certification candidates must also complete 33 credits in additional required coursework. See the education department section on pages 84–85 for additional information.

Major courses: history (36 credits) or political science (39 credits).

DEPARTMENT OF DIGITAL COMMUNICATIONS

The Digital Communications major explores the interrelated elements of communication, business, design, and computer science in a setting that emphasizes user-centered design. The major fosters critical reasoning, creativity, innovation, and problem solving so that graduates have the ability to evolve as quickly as current technology.

The interdisciplinary nature of the major means that a program of study in digital communications relies on diverse methods and theories from the fields of art, business, communications, and computer science. After graduating with a B.S. degree in digital communications, the student is prepared to enter a wide range of communications, commerce, or technology-related positions in advertising, marketing, e-commerce, public relations, information technology, journalism, graphic design, experience design, web/multimedia design and development, and programming or further study in graduate programs such as communications, digital media/arts, library science, technical writing, instructional design, industrial design, and business.

User-centered design and usability testing provide the foundation for this curriculum. Students will study design, writing, programming, and business in the context of designing projects, business plans, or programs that account for the interests, habits, and behaviors of real users. They will study the interdisciplinary techniques with which content is created, processed, and delivered. They will apply these theories in designing effective communications and will employ emerging technologies and usability testing strategies to create and test the projects and ideas they developed.

The department's curriculum, designed to be interdisciplinary and integrative, emphasizes critical thinking, creativity, and analysis, rather than specific applications and technologies. Students in digital communications will complete advanced coursework in one of the four areas to form a concentration in business, communications, computer science, or design. The General Education Program at the College, together with the courses in the students' concentration, will expose the students to the fundamental questions of how information is created, processed, understood, and communicated.

Degree Requirements:

Degree: Bachelor of Science with a major in Digital Communications. (51 credits.)

Major Core: DCOM 130, 230, 330; CSC 115, DCOM 100, 200, 300; DCOM 255, 256; DCOM 265, 365; DCOM 285, 385; DCOM 099, 400, 430, 440.

In addition to the core, each major must select a concentration in design, business, communications, or computer science and take three additional courses in the concentration. At the discretion of the student's advisor, courses from other concentrations or from outside DCOM can be used to satisfy the required courses in business, communications, and design.

Business: BUS 130, and at least two courses from the following list: BUS 230, 285, 340, 341, 350, 374, 376, or 460.

Communications: DCOM 316, 375, 485, 495; ENG 213, 214, 215, 310, 312, 313, 314, 315, 321, 380

Design: ART 105, 211, 215, 217, 307, 319, 351, 405; DCOM 210, 344/345, 375 with at least one course at the 300 level.

Computer Science: CSC 131, 132, 231. Note, 231 will have a prerequisite of MAS 161.



Courses in Digital Communications (DCOM):

099. Portfolio. A formal collection of the student's completed work to be presented before the DCOM faculty and students as part of the student's formal request to take DCOM 400 (Internship). The portfolio must be both in print and in an appropriate electronic form, include a resume, and contain examples of the student's work in both their concentration and the core. Graded pass/fail. Typically taken during the fall semester of junior year. 0 credits.

100. Web Authoring. This practical, hands-on course teaches how to use the authoring software Dreamweaver and HTML to create simple web pages and page layouts. Students will gain facility using web authoring software (Dreamweaver) and will be able to read and write effective, simple HTML code. It is a one-day-per-week, one-hour course that will emphasize completing daily assignments, in-class work, and quizzes. Corequisite: DCOM 130. 1 credit.

130. *Principles of Information Design.* This class surveys the principles and practices of user-centered design (research/observation, design, prototyping, and usability testing), information design, information architecture, interaction design, interface design, and digital infrastructure. Website design will be introduced as a model for integrating the interdisciplinary components of the field of digital communications. Corequisite: DCOM 100. 3 credits.

200. Design Authoring. This hands-on, one-credit course teaches advanced uses for vector-based graphic authoring software (Illustrator) and layout authoring software (In-Design). This course is a required class for all DCOM majors. Each class will meet once a week for one hour and require that students complete daily assignments, in class work, and quizzes. 1 credit.

Lebanon Valley College

210. Graphic Design. An introductory studio/lecture course designed to increase visual literacy and vocabulary, develop design skills, and present the creative possibilities of the computer as an art-making and editing tool. 3 credits.

230. Information Law and Ethics. This course will examine the legal and ethical issues arising from the information age. Topics such as copyright, patent, privacy, security, libel, liability, and government regulation will be explored. 3 credits.

255. *Fundamentals of Design.* An introduction to the fundamental elements of art and design. Students work with graphic symbols, theories of visual perception, principles of composition, and color interaction in a variety of studio projects. 3 credits. [Cross-listed as Art 213.]

256. *Digital Graphic Design.* The course will focus on blending the creative and technical aspects of developing electronic images. Students will apply traditional art methods and techniques to the electronic canvas. Additionally, the course will serve to provide a historical perspective of electronic imaging, and examine the limitations and possibilities of working in the electronic medium. 3 credits.

265. *E-Commerce.* An exploration of the important technologies related to doing business on the Internet. Topics include e-commerce, advertising, customer support, and business-to-business applications. Emphasis on how businesses implement these technologies, resource requirements, cost-to-benefit analysis. 3 credits.

285. Writing for Digital Media. This course will provide students with the skills, theories of design, and experience to design viable digital media projects that meet specific goals and target specific audiences. Prerequisite: DCOM 130, or permission. Offered fall semester. Writing process. 3 credits.

300. Dynamic Authoring. This is a hands-on course that teaches students how to use Flash to create basic interactive or dynamic objects. One-day-per-week, one-hour class that will emphasize completing daily assignments, in-class work, and quizzes. Corequisite: DCOM 385. 1 credit.

316. *Journalism in the Digital Age.* Exploration of the ways that digital technology transforms journalistic standards, practices, and values. Theoretical and practical introduction to professional blogs and the use of emerging technologies to create narratives appropriate for multimedia platforms. Covers social, cultural, economic, and political implications of online technologies and applications. Prerequisite: ENG 213 or DCOM 285, or by permission of the instructor. 3 credits. [Cross-list ENG 316.]

330. Usability Design and Testing. The course emphasizes planning, conducting, and analyzing usability tests. The course will teach the basic concepts of usability research and the practice of usability testing in a lab setting. Using the principles and techniques of usability testing, students will research the effectiveness of online and print documents, and physical objects, using video and digital equipment, with emphasis on rhetorical effectiveness and usability of information design and architecture, graphics, text, design, and format. 3 credits.

344. Digital Video Authoring. This is a, hands-on course that teaches students how to use video editing software to edit video and create video effects. One-day-per-week,

one-hour class that will emphasize completing daily assignments, in class work, and quizzes. Corequisite: DCOM 345. 1 credit.

345. Digital Video. This course introduces students to the basic principles and practices of digital video creation and production. This course allows the student to build their digital video making skills by having them conceive, storyboard, film, edit, and author projects in DVD format. To complement their practical knowledge, the course gives the students theoretical understanding of how moving and time-based imagery function both conceptually and expressively. Corequisite: DCOM 344. 3 credits.

365. E-Business Strategy. An exploration of the way businesses utilize technology to operate effectively. The course will focus on how businesses generate, manage, store, and distribute information that is key to performance of business objectives. Topics will include Enterprise Resource Planning (ERP), Customer Relationship Management (CRM), Supply Chain Management (SCM), e-Marketing, and Business Intelligence. Prerequisite: DCOM 265, or permission. 3 credits.

375. Advanced Website Design. Students will learn programming and scripting for the web. This should teach the importance of clean, semantic markup coupled with advanced CSS techniques of today and tomorrow [CSS3]. Also cross browser compatibility, web accessibility, and web standards. Topics to be covered would be CSS and XHTML. Students begin by learning how web pages are structured and styled with scripting, then learn to use advanced applications to create sophisticated presentation and interactive effects, including typographical and layout control, and interactive elements. Students receive hands-on experience programming in web/multimedia projects and learn to create advanced Web sites and multimedia projects using current scripting languages and website authoring software. Prerequisite DCOM 130. 3 credits.

385. Multimedia. This course will reinforce and build upon the design skills, theories, and experience from Writing for Digital Media I, and focus on the production and post-production/development process. Prerequisite: DCOM 285, or permission. Corequisite: DCOM 300. 3 credits.

386. *Video Games: History, Theory, and Social Impact.* This class will critically examine video games as historical and cultural artifacts, as narratives, as works of art, as a technologically dependent medium, as part of human play and as a powerful social influence. Disciplinary Perspectives. 3 credits.

430. Capstone—Project Management. This capstone courses teaches the theory and application of planning projects in the field of digital communications. The course covers principles of project management, research, and project strategy. Additionally, topics of professionalism, client interface, modes of communication, and collaborative group theory and practice are explored. 3 credits.

440. Capstone—Research and Development. This course is a practicum class where students work on a project for external clients. This course simulates the collaborative and interdisciplinary environment of the field of digital communications and emphasizes usability testing in the identification of a problem, in formative testing and prototyping of potential design ideas, and summative testing of the final project. The course takes the integrative theory and skills from the four areas of concentration (visual, con-

tent, commercial, and technological) and builds upon the theory and application explored in the first Capstone course to develop a multi-disciplinary team of students to deliver an appropriate project. 3 credits.

485. *Media Theory.* This course explores the influence of technology on literary (written) culture, establishing a historical perspective on the way we produce, communicate, and receive cultural works and how different technologies influence the production, dissemination, and reception of cultural artifacts. Prerequisite: junior standing or permission. 3 credits.

495. *Storytelling: Books to Video Games.* From classic novels and poetry, to popular fiction, to hypertext/media, participants will explore how the art of storytelling changes with the medium in which the story is told. This course first focuses on close reading and analysis of literature, and then explores the aesthetic and theoretical implications and opportunities of digital and interactive media that have created a rich new platform for the creation of literary and artistic works. Prerequisite: Junior standing or permission. This course fulfills an English 390 (Literature) requirement. It also meets an L5 requirement in the General Education Program. 3 credits.

Faculty

Joel A. Kline, associate professor of digital communications.

M.J.P.R.A. Temple University; A.B.D., Texas Technological University.

Kline teaches courses in organizational communications, technology, digital media, and project management. He is the treasurer of the International Digital Media Arts Association and accredited in public relations by the Public Relations Society of America. Prior to entering academia, he owned a digital media company and held elected office. Kline consults and researches in the areas of knowledge management, Web 2.0, and information design for electronic health records.

Jeffrey J. Ritchie, associate professor of digital communications. Chairperson. *Ph.D., Arizona State University.*

Ritchie teaches courses in English communications, digital communications, and British literature. In addition to a doctorate in English literature, he has an master's degree in educational media and computers. His interests include interdisciplinary studies in science, literature and national identity, 18th- and 19th-century British literature, interactive media and narrative, and multi-media design. He currently serves as the assistant editor of the International Digital Media and Arts Association Journal and serves on the advisory board of the International Digital Media and Arts Association.

Mathew Samuel, assistant professor of digital communications. *M.A.*, *Maryland Institute College of Art*.

DEPARTMENT OF EDUCATION

The State of Pennsylvania is in the process of making major changes to all teacher certification programs across the State of Pennsylvania. <u>These changes go into effect with the incoming class of 2009 and will result in the old certification requirements becoming void after January 1, 2013</u>. Any certification program begun before the fall semester 2009 and not completed before January 1, 2013 will result in the State not accepting your application for certification. There is no provision in the law for exceptions to this rule.

Prior to the incoming class of 2009, the Department of Education certified students in elementary education (K–grade 6), special education (K–grade 12), English as a Second Language (ESL, K–grade 12), and secondary education (grade 7–grade 12).

Beginning with the incoming class of 2009, the current elementary (K–6) and special education (K–grade 12) certifications will no longer be issued by the Pennsylvania Department of Education. These programs are replaced with two new certificates: Early Childhood Education (ECE, PreK–grade 4) and Special Education (PreK–grade 8) majors. The Lebanon Valley College Education Department does not offer a certification in Special Education (grade 7–grade 12) or Middle Level Education.

Regardless of your certification program, you will learn how to put educational theory into practice using the latest teaching methodologies. Beginning in your freshman year and continuing through your senior year, you will observe talented teachers at work in a variety of classroom settings with all types of students. After observing classes, you will go from tutoring individuals to actually planning and teaching lessons. By your senior year you will begin practicing your profession as a full-time student teacher.

Post-baccalaureate certification is also available for those who wish to become teachers or for those already certified who want to add early childhood education, special education (PreK–grade 8), or a secondary certification area to an existing certificate.

Certification in two or more areas of teacher preparation is possible; however, such certification requires meticulous attention to scheduling and may require additional semesters. Early Childhood Education majors who, as freshmen, begin to pursue ECE, or ECE/special education (PreK–grade 8) certifications, will be able to complete them within their four years of study, unless they add other elements to their studies, such as pursuing an additional minor, double majoring in content areas outside the Education Department, going abroad, etc. Careful and early scheduling can avoid misconceptions about such issues.

The Education Department is intent on preparing well-rounded and qualified graduates who will exercise genuinely professional and personal leadership roles in the schools and communities where they will live and work.

In accord with the regulations set forth in Chapter 354 and Chapter 49-2 of the Pennsylvania School Code, the following criteria must be met by all candidates who seek teacher certification at Lebanon Valley College:

I. All teacher candidates must be admitted to teacher certification candidacy by a formal and clearly delineated process that is distinct from admission to the College and/or to the major.

II. Admission to teacher certification candidacy (Chapter 354) is neither automatic nor synonymous with admission to the College or to the major.

III. Admission to teacher certification candidacy is contingent upon the completion of these criteria:

- (1) completion of a minimum of 48 college credits;
- (2) an overall GPA, after having completed 48 or more college credits, of at least 2.8;
- (3) completion of at least one English composition course;
- (4) completion of one English or American literature course;
- (5) completion of two college level mathematics courses;
- (6) passing scores on these PRAXIS Tests: PPST Reading; PPST: Writing; PPST: Mathematics.
- (7) completion of the Application for Admission to Teacher Certification Candidacy form, available from the major adviser.

IV. Those students who do not meet the above criteria may continue to pursue teacher certification, even though they are not and cannot be considered candidates for teacher certification until all of the above requirements have been met.

V. Once all of the above requirements have been met, the student must see his or her advisor to complete the Application for Admission to Teacher Certification Candidacy form,

VI. Students who are not formally admitted to teacher certification candidacy cannot student teach nor will they be able to be recommended for teacher certification upon graduation.

VII. Students who have been formally admitted to teacher certification candidacy, but who afterward fall below the required overall GPA of 2.8, may continue in the program; however, they may not student teach unless and until they have achieved the required overall GPA of 2.8.

VIII. Students must have the required minimum overall GPA of 2.8 at the time of graduation in order to be eligible for recommendation by the college for teacher certification.

The Chapter 49-2 regulations redefine the certification requirements for elementary education and special education in Pennsylvania. In addition, this law mandates that all certification students receive nine credits, or the equivalent, of instruction in Special Education and three credits, or the equivalent, of instruction in English as a Second Language (ESL).

Title II

In accordance with state and federal regulations, Lebanon Valley College regularly reports the aggregate student data to the Pennsylvania Department of Education. HEA – Title II 2008–2009 academic data (the last year of available data) shows the pass rate to be 100 percent for all reported assessment categories. Many factors, such as the number of students in the program, number of tests required for licensure, the number of licensure candidates who complete all required exams before graduation, and the number of teacher certification candidates who actually take the licensure exams, affect the overall College scores.

Education Program

Degree Requirements:

There is no major or minor in general education.

Courses in Education (EDU):

110. Foundations of Education. A study of the legal, social, historical and philosophical foundations of American education correlated with a survey of the principles and theories of influential educators. Includes required weekly field practicum (two hours per week minimum). Limited to any student desiring teacher certification in any 7–12 secondary or K–12 content area with an approved PDE certification program or permission of instructor. This course is not open to early childhood or music education majors. 3 credits.

140. Educational Technology and Instructional Media. An introduction to the educational technologies used in the classroom based on the Pennsylvania Science and Technology Standards. Among the topics covered are computer hardware, peripherals, and operating systems; multimedia production; software evaluation and use; web page evaluation and construction; and ethical and societal issues related to the use of technology. Prerequisites: freshman or sophomore education majors or other certification candidates with permission of the instructor. 3 credits.

240. Language, Cultural Diversity and Academic Achievement: PreK–Grade 8. This course is designed for the pre-service music, art, language, early childhood education, or middle school educator to gain an understanding of the complex factors impacting the education and language acquisition of the diverse language and cultural minority groups of the United States. This course is required under Act 49-2 and may be taken while student teaching. Social Diversity Studies. 3 credits.

245. Language, Cultural Diversity and Academic Achievement: Grade 7–Grade 12. This course is designed to allow the pre-service music, art, language, or grade 7–grade 12 secondary teacher certification candidate to gain an understanding of the complex factors impacting the education and language acquisition of the diverse language and cultural minority groups of the United States. This course is required under Act 49-2 and may be taken while student teaching. Social Diversity Studies. 3 credits.

450. *Curriculum and Instruction for the Young Adolescent.* The course will examine the historic and philosophic contexts of middle level education and current issues affecting middle schools including the specific characteristics of young adolescents, developmentally appropriate curriculum, instruction and assessment, the guidance and teaching roles of middle school teachers, cultural diversity and communication with parents and the public. Prerequisite: Limited to teacher certification candidates or permission of instructor. 3 credits.

Early Childhood Education PreK to Grade 4 (beginning with incoming class 2009)

The Education Department is committed to preparing early childhood education majors who have a thorough grounding in the disciplines they will teach within the context of a strong liberal arts foundation. The program includes intensive training in the content and methodologies of all early elementary education content areas.

The field-centered component in the program requires extensive and carefully sequenced opportunities to work with teachers and children in a variety of school settings during all four years of preparation for teaching. The Education Department has established strong relationships with local public, parochial, and private schools. Depending on the course, majors spend between two and five hours per week each semester in various classrooms, observing teachers and children, aiding, tutoring, providing small-group and whole-class instruction, and completing tasks on increasingly challenging levels of involvement. Student teacher candidates spend the semester immediately preceding the student teaching semester with their assigned cooperating teachers. Seniors spend the fall semester in full-time student teaching with cooperating teachers who have been carefully chosen for that role. Additional opportunities are provided for our students to work in nursery schools, child care centers, middle schools, and in classes for exceptional children.

Degree Requirements:

Degree: Bachelor of Science with a major in early childhood education.

Major: Early childhood education majors must take: ECE 110, 115, 210, 220, 230, 240, 310, 320, 330, 335, 340, 350, 360, 370, 380, 385, 410; EDU 140, 240; SPE 250, 255; two college-level mathematics courses, an English composition course, and an American or British literature course (75 credits).

Note: Students may graduate with the B.S. degree without completing student teaching. Students who are pursuing teacher certification must also complete 12 credit hours of ECE 440 Student Teaching in addition to completing all requirements for the major in Early Childhood Education.

Courses in Early Childhood Education (ECE):

ECE 110. Child Development I. This course will provide an overview of early childhood educators' beliefs that inquiry learning through curriculum integration is the most effective way to teach young children. The emergence of constructivism and the agerelated patterns of intellectual growth will be examined. This knowledge will be essential for pre-service teachers learning to make competent decisions about curriculum and teaching methodology. The delivery approach will follow a theory-to-practice format so students can "see" how an understanding of theories of development and relationships enhances practice and planning. 3 credits.

ECE 115. Child Development II. This course will provide an understanding of the overall patterns of child development and learning. The student will gain insight into the relationships between child development, learning and teaching, and the variation from these typical patterns. The emphasis will be placed on reviewing the characteristics of children at different ages and stages of development. Specific developmental appropriate practices for school-aged children will be examined. Delivery approach will include, but not be limited to authentic classroom videos, analyzing and responding to real student and teacher artifacts, case studies, and simulations. 3 credits.

ECE 210. Family Partnerships. This course will focus on the developmental tasks and perspectives of the adults in children's lives. Students will spend time understanding the roles of parents, teachers, and other caregivers in the lives of young children as they

work to form caring relationships with those around them. The delivery approach will follow a theory-to-practice format so students can "see" how an understanding of theories of development and relationships enhances practice. The professor will promote experiential learning, critical thinking, synthesis, planning, evaluation, and action. Prerequisite: ECE 110 or 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 220. Theory and Practices. This course will involve an in-depth examination of child development and learning, family and community relationships, effective assessment strategies, developmentally effective approaches to teaching and learning, and ethical guidelines related to early childhood practice. Students will have opportunities to view and design challenging learning environments. They will practice using observation, documentation, and other appropriate assessment tools and approaches in field experiences. Delivery approach will include, but not be limited to analyzing and responding to authentic classroom artifacts, case study analysis, simulations, journal critiques, and field experiences. Prerequisite: ECE 110 or 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 230. Creative Arts. This course will begin with a definition of creativity as it applies to young children in the early childhood classroom. Specific attention will be given to clarifying the importance of art, music, and drama in child development and learning. Delivery approach will include, but not be limited to authentic classroom video viewing, field observations, group presentations, and research articles. Prerequisite: ECE 110 or 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 240. Literacy and Literature I. A course that will focus on the growth and development of the young, emergent reader. The course foundation will be supported by both a balanced literacy approach and the Pennsylvania Academic Standards for Reading, Writing, Speaking, and Listening. Stressing the importance of early intervention, students will explore a variety of strategies, methods, and assessments to teach reading supported by research. These include, but are not limited to phonological awareness, letter recognition, sound symbol relationships, vocabulary development, kid writing, and inventive spelling. Prerequisite: ECE 110, 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 310. Social Studies Methods. This course is designed to introduce the complexity of social studies and draws on years of related research that demonstrates the importance of inquiry learning to deepen children's understanding of the integrated curriculum. The areas of child development related to the social studies, the current national standards and practical ideas for teaching will also be examined. Delivery approach will include, but not be limited to inquiry-oriented instruction, class discussions, demonstrations of early concrete learning experiences and hands-on experience with various social studies programs. Prerequisite: ECE 110, 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 320. Program Design and Curriculum Development. This course provides a comprehensive, balanced overview of early childhood education. Understanding child development, play, guidance, working with families and communities, and diversity

are the five essential elements of early education that are addressed in this course. The delivery approach will include, but not be limited to classroom video reflections, research articles, technology experiences, and case study analyses and simulations. Prerequisite: ECE 110, 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 330. Literacy and Literature II. A course that will focus on the growth and development of the beginning reader. The course foundation will be supported by both a balanced literacy approach and the PDE standards for reading, writing, speaking, and listening. Stressing the importance of a strong foundation in phonics, vocabulary, fluency, and comprehension, students will explore a variety of strategies, methods and assessments to teach reading supported by research. Students will explore types of writing, the writing process, and conventional spelling instruction. As the writing process is taught, students will demonstrate the process by writing a 3000-word paper on a topic related to the course. The professor will conference with each student during the revision and editing stages of the process. ECE 330 is writing process. Prerequisite: ECE 110, 115, 240, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 335. Literacy and Literature III. A course that will focus on the growth and continued development of the beginning reader as independent reading within the curriculum becomes necessary. The course foundation will be supported by both a balanced literacy approach and the PDE standards for reading, writing, speaking, and listening. Stressing the importance of comprehension, students will explore a variety if strategies, methods, and assessments to teach reading and writing across the content areas as supported by research. This includes, but is not limited to writing short stories and informal pieces with an understanding of the stylistic aspects and conventions of composition. Prerequisite: ECE 110, 115, 240, 330, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 340. Teacher Researcher. This course will begin with an overview of national, state and local interests that continue to inspire educators, businesses, and government to become more involved in discussions and to offer solutions, including legislative solutions, to assure children's success across the nation. Students will be prepared to make informed, research-based professional decisions about each of their students on a daily basis, using ongoing observation and diagnosis to support their decisions. Delivery approach will include, but not be limited to critiques of prototypical examples of effective practices according to research, modeling evidence-based strategies for the culturally and linguistically diverse learners, informational reading and writing. Prerequisite: ECE 110, 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 350. Child Wellness. This course will outline common safety issues and guidelines that all adults can employ to help prevent serious injuries (and lawsuits) to children and simultaneously help orient children to safe play practices. This course will also address modern societal pressures that have resulted in fewer opportunities to develop the motor and cognitive skills needed for safe play. Delivery approach will include, but not be

limited to, authentic indoor and outdoor classroom video viewing, field observations, group presentations, and research articles. Prerequisite: ECE 110, 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 360. Math Methods. This course will begin with a historical overview of mathematics teaching and learning for young children. Current ideas on teaching mathematics will be introduced, as well as the many ways to incorporate mathematics learning into everyday classroom life. Assessments that encompass both understanding and procedural skills will be introduced. Curricular expectations related to number and operations, geometry, measurement, algebra, and data analysis and probability will be explored. Delivery approach will include, but not be limited to inquiry-based instruction, journal critiques, and children's literature with mathematical themes, subplots, and references. Prerequisite: ECE 110, 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 370. Play and Projects. This course is about children's play and development beginning with a history of ideas, beliefs, and activities of play, the early and contemporary theories of play; and how scholars explain its meaning, functions, and developmental benefits. Students will gain an understanding of the developmental advantages of children's free play and the disadvantages of not playing. Delivery approach will include, but not be limited to lecture, individual and group presentations, fieldwork observations, and journaling. Prerequisite: ECE 110, 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 380. Science Methods. This course is designed to introduce the major areas of science instruction and define the relative importance of science content, processes, skills, and attitudes needed for young children to successfully understand science. National Science Education Standards will be examined to identify what children at different ages and stages should know and be able to do in the area of science. Delivery approach will include, but not be limited to inquiry-oriented instruction, class discussions, integrated unit plans, and hands-on experience with various science programs. Prerequisite: ECE 110, 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits.

ECE 385. Advocacy, Leadership, and Collaboration. This course will begin with an examination of the professional and ethical standards expected of an early childhood educator. Collaboration with families, the community, and public agencies will be practiced and further developed through co-teaching opportunities. Delivery approach will include, but not be limited to field experiences, class discussions, simulations and reflective writings. Prerequisite: ECE 110, 115, EDU 140, limited to early childhood education majors or permission of the instructor. 3 credits

ECE 410. Senior Capstone. Special topics related to current concerns in education are researched and presented by the students in the course. Issues related to teaching and to further professional growth are explored. Teams of students are required to do extensive research in an approved topic and to make a computer-based multimedia presentation of that research to the class. Prerequisite: Limited to senior early childhood elementary education majors or permission of instructor. 3 credits.

ECE 440. ECE Student Teaching. Each student spends an entire semester in an area school under the supervision of a carefully selected cooperating teacher. Open to seniors or students who are seeking certification only. Prerequisites: Cumulative, calculated grade point average of 3.000; all Act 354 and Act 49-2 course requirements; EDU 140; ECE 110, 115, 210, 220, 230, 240, 310, 320, 330, 335, 340, 350, 360, 370, 380, 385, 410; and permission of the Education Department faculty. 12 credits.

Elementary Education (Teacher Certification) Program Prior to Fall 2009

(This degree is being phased out of the curriculum and is not be available to students entering LVC after the spring 2009 semester.)

The Education Department is committed to preparing elementary education majors who have a thorough grounding in the disciplines they will teach within the context of a strong liberal arts foundation. The program includes intensive training in the content and methodologies of all elementary school subjects.

The field-centered component in the program requires extensive and carefully sequenced opportunities to work with teachers and children in a variety of school settings during all four years of preparation for teaching. The Education Department has established strong relationships with local public, parochial and private schools. Majors spend an average of two hours per week each semester in various classrooms, observing teachers and children, aiding, tutoring, providing small-group and whole-class instruction, and completing tasks on increasingly challenging levels of involvement. Student teacher candidates spend the semester immediately preceding the student teaching semester with their assigned cooperating teachers. Seniors spend the fall semester in full-time student teaching with cooperating teachers who have been carefully chosen for that role. Additional opportunities are provided for our students to work in nursery schools, child care centers, middle schools, and in classes for exceptional children.

Degree Requirements:

Degree: Bachelor of Science with a major in elementary education.

Major: Elementary education majors must take: EDU 110, 140, 310; ELM 130, 220, 230 250, 271, 332, 344, 362, 371, 372, 401 or ART 120, 499; HIS 125; two college-level mathematics courses, an English composition course, and an American or British literature course; PSY 180 (52–56 credits).

Note: Students may graduate with the BS degree without completing student teaching. Students who are pursuing teacher certification must also complete 12 credit hours of ELM 440 Student Teaching in addition to completing all requirements for the major in Elementary Education.

Courses in Elementary Education (ELM):

281–286. *Field Practicum in the Elementary School.* Supervised weekly field experiences (two hours per week minimum) in appropriate school settings. Prerequisite: permission. 0 credits.

332. The Physical Sciences in the Elementary School. A study of basic concepts in general science, earth and space science, physical and biological science, and environmental studies based on the Pennsylvania Academic Standards for Science and Tech-

nology. The course emphasizes the experiential nature of science in the elementary classroom with special attention to materials, media and technology, writing across the curriculum, authentic assessment, exceptional children, and methodologies appropriate for kindergarten through sixth grade students. The course integrates a multidisciplined, whole language approach to teaching physical and environmental science. Prerequisite: Limited to education majors or permission of instructor. 3 credits.

344. Health Education in the Schools. Provides the background information and skills teachers need to implement comprehensive school health education. The course includes information on the six categories of risk behavior identified by the Center for Disease Control and Prevention and the Pennsylvania Academic Standards for Science and Technology. The course examines the objectives of Healthy People 2000, the eight components in comprehensive school health, the Safe Schools Act, the National Health Education Standards, comprehensive school health programs, the 10 content areas of health education, and instructional strategies and materials appropriate to the teaching of health in today's schools. Attention is given to the ethical, moral and religious issues often associated with this area of the school curriculum. Prerequisite: Limited to education majors or permission of instructor. 3 credits.

362. Social Studies in the Elementary School. An examination of the content, methods and role of social studies in the elementary school, beginning with early childhood, based on the 10 Social Studies Strands of NCSS and the applicable Pennsylvania Academic Standards. The curriculum is examined from two vantage points: the daily lives of children as they relate to developing values and attitudes, and the planned study of people as they live and have lived in our world. The development of a teaching unit and the examination of learning resources are required. Prerequisite: Limited to education majors or permission of instructor. 3 credits.

371. Literacy and Literature II. A course that will focus on the growth and development of the beginning reader. The course foundation will be supported by both a balanced literacy approach and the PDE standards for reading, writing, speaking and listening. Stressing the importance of a strong foundation of phonics, vocabulary, fluency and comprehension, students will explore a variety of strategies, methods and assessments to teach reading supported by research. Students will also explore the types of writing, the writing process and conventional spelling instruction. As the writing process is taught, students will demonstrate the process by writing a 3000-word paper on a topic related to the course. The professor will conference with each student during the revising and editing stages of the process. ELM 371 is writing process. Prerequisite: ELM 271, limited to education majors or permission of instructor. 3 credits.

372. *Literacy and Literature III.* A course that will focus on the growth and continued development of the developing reader as independent reading within the curriculum becomes necessary. The course foundation will be supported by both a balanced literacy approach and the PDE standards for reading, writing, speaking and listening. Stressing the importance of comprehension, students will explore a variety of strategies, methods and assessments to teach reading and writing across the content areas as supported by research. This includes but is not limited to writing short stories and infor-

mational pieces with an understanding of the stylistic aspects and conventions of composition. Prerequisite: ELM 271, 371, limited to education majors or permission of instructor. 3 credits.

401. Art in the Elementary School. Introduction to creative art activity for children in elementary school. Topics covered include philosophical concepts, curriculum, evaluation, and studio activity involving a variety of art media, techniques, and processes and are based on the Pennsylvania Academic Standards for Art. Prerequisite: Limited to education majors or permission of instructor. 3 credits.

440. Student Teaching. Each student spends an entire semester in an area school under the supervision of a carefully selected cooperating teacher. Open to seniors or students who are seeking certification and have been admitted to teacher certification candidacy status. A cumulative grade point average of 3.0 is required to student teach. Prerequisites: EDU 110, 140, 310; HIS 125; PSY 180; ELM 130, 220, 230, 250, 271, 28X, 332, 344, 362, 371, 372, 401 and permission of the Education Department faculty. 12 credits.

499. Senior Seminar. Special topics related to current concerns in education are researched and presented by the students in the course. Issues related to teaching and to further professional growth are explored. Teams of students are required to do extensive research in an approved topic and to make a computer-based, multimedia presentation of that research to the class. Prerequisite: Limited to senior elementary education majors or permission of instructor. 3 credits.

Secondary and K-12 Teacher Certification Program

(Students who entered the program prior to fall 2009, or who can complete coursework, certification examinations, and the application process by the end of the fall

2012 semester, should refer to the 2008-2009 catalog for program details)

Students pursuing secondary and K–12 teacher certification are prepared for teaching by completing an intensive program in the departmental major(s) of their choice in conjunction with a carefully sequenced professional education component within the Education Department. Both the major program and the professional education component are completed within the context of a strong foundation in the liberal arts.

Departmental majors may seek secondary certification in, biology, chemistry, citizenship education, English, mathematics, physics, and social studies. K-12 certification is available in art, French, German, and Spanish. K-12 certification is also available in music; please see the music department section for details.

Candidates are provided with opportunities to observe and to teach in junior high, middle school, and high school settings prior to the full-time student teaching semester. Cooperating teachers are selected through a process involving College faculty, secondary school personnel, and the student teachers, thus assuring the most beneficial placements possible.

Degree Requirements:

There is no major in education for those interested in secondary or K-12 teaching. Students complete the requirements in their chosen major, including any additional related courses required for certification, and the designated professional education courses.

Degree: Bachelor of Arts or Bachelor of Science in the chosen major. (Majors: art and art history, biology, chemistry, English, French, German, history [citizenship education or social studies], mathematics, physics, political science [citizenship education or social studies], and Spanish.)

Secondary and K-12 Teacher Certification: Students entering LVC during August 2009 or later and seeking secondary certification must meet all Act 354 and Act 49-2 requirements outlined in the beginning of this section, complete the approved program in the chosen major and 33 credits in education courses, consisting of EDU 110, EDU 245 (students seeking K–12 certification may take EDU 240 instead of 245), SPE 250, SPE 255, SED 430, SED 431, SED 440, and the appropriate content methods class SED 361, SED 362, SED 363, SED 364, SED 365, or SED 366. Students transferring credits into the program from other institutions, may need to take SPE 258 in addition to the other courses listed. SED 280 or SED 431 must be taken in the fall or spring semester immediately preceding the student teaching semester.

Courses in Secondary Education (SED):

280. *Field Practicum in the Secondary School.* Supervised field experiences in appropriate school settings. Designed to offer practical experiences for prospective secondary teachers. Prerequisite: permission. 0 credits.

361. *Teaching of Art in Schools.* This course will offer comprehensive preparation for teaching art in secondary schools through discussing, reading, writing, and completing art projects through different mediums. As part of this course, students will establish and practice appropriate classroom management strategies; develop and implement appropriate studio organization and assessment strategies; explore and utilize materials, techniques and methods of studio instruction for a variety of populations; read, write, and discuss current issues in the field of education, including meeting the needs of students with disabilities; explore and utilize materials, techniques, and methods of classroom instruction for a variety of populations including those with disabilities; evaluate student work by creating their own rubrics to assess learning; and use technology effectively as an instructional tool. Prerequisites: art/art history major or permission. 3 credits.

362. Teaching of the Sciences in the Secondary Schools. This course will offer comprehensive preparation for teaching science in secondary schools through discussing, reading, writing, and completing projects. As part of this course, students will design lesson plans that will include teaching the literacy of science for all students including those with disabilities; explore and utilize materials, techniques, and methods of lab instruction for a variety of populations including those with disabilities; create and teach a lesson for a target audience; synthesize, reconfigure, and connect what they have learned within the areas of scientific literacy, writing, and education; evaluate student work by creating their own rubrics to assess learning in units and assignments for all students including those with disabilities; use technology effectively as an instructional tool; establish and practice appropriate classroom management strategies. Prerequisite: biology, chemistry, or physics major or permission. 3 credits.

363. Teaching of Social Studies in the Secondary Schools. This course will offer comprehensive preparation for teaching social studies in secondary schools through discussing, reading, writing, and completing projects. As part of this course, students will establish and practice appropriate classroom management strategies; design lessons/units of study that meaningfully integrate different and varied aspects of social studies; develop appropriate assessment strategies for all students including those with disabilities; explore and utilize materials, techniques, and methods of classroom instruction for a variety of populations including those with disabilities; synthesize, reconfigure and connect what they have learned within the areas of social studies literacy, writing, and education; evaluate student work by creating their own rubrics to assess learning; use technology effectively as an instructional tool. Prerequisite: social studies major or permission. 3 credits.

364. Teaching of English in the Secondary Schools. This course will offer comprehensive preparation for teaching English in secondary schools through discussing, reading, writing, and completing projects. As part of this course, students will synthesize, reconfigure, and connect what they have learned within the areas of literature, writing, and education; use technology effectively as an instructional tool; establish and practice appropriate classroom management strategies for all students including those with disabilities; design lessons/units of study that meaningfully integrate different and varied aspects of English for all students including those with disabilities; explore and utilize materials, techniques, and methods of classroom instruction for a variety of populations. Prerequisite: English major or permission. 3 credits.

365. Teaching of Foreign Language in Schools. This course will offer comprehensive preparation for teaching foreign language in secondary schools through discussing, reading, writing, and completing projects. As a part of this course, students will synthesize, reconfigure, and connect what they have learned within the areas of language acquisition, teaching, writing, and education to formulate a mission statement for their own teaching practice; evaluate student work by creating their own rubrics to assess learning in foreign language acquisition, units of study, and assignments; use technology effectively as an instructional tool; establish and practice appropriate classroom management strategies for all students including those with disabilities; design lessons/units of study that meaningfully integrate different and varied aspects of foreign language acquisition for all students including those with disabilities; explore and utilize materials, techniques, and methods of classroom instruction for a variety of populations. Prerequisites: foreign language major or permission. 3 credits.

366. Teaching of Mathematics in the Secondary Schools. This course will offer comprehensive preparation for teaching mathematics in secondary schools through discussing, reading, writing, and completing projects. Students enrolled in this course will explore and utilize materials, techniques and methods of instruction for a variety of populations; synthesize, reconfigure, and connect what they have learned within the areas of mathematical literacy, writing, and education; evaluate student work by creating their own rubrics to assess learning in units and assignments for all students including those with disabilities; use technology effectively as an instructional tool; establish and practice appropriate classroom management strategies for all students including those with disabilities; design lessons/units of study that meaningfully integrate different and varied aspects of mathematics; explore and utilize materials, techniques and methods of classroom instruction for a variety of populations. Prerequisites: mathematics major or permission. 3 credits.

430. *Practicum and Methods I.* A study of the basic principles and procedures for middle school and secondary school classroom management and instruction. Prerequisites: EDU 110; secondary teacher certification candidate; junior status; approval of the instructor; must be taken prior to SED 431 or SED 440. 3 credits.

431. *Practicum and Methods II.* A continuation of the basic principles and procedures for middle school and secondary school classroom management and instruction. Pre-requisites: EDU 110; SED 280, 430; secondary teacher certification candidate; junior or senior status; approval of the instructor; must be taken prior to SED 440. 3 credits.

440. Student Teaching. Students spend the entire semester in an area school under the supervision of a cooperating teacher. Prerequisites: A cumulative grade point average of 2.8 and admission to teacher certification candidacy are required. (See Education Department III 1-7.) EDU 110; SED 430, 431; open to seniors or students seeking certification only. 12 credits.

Special Education PreK – Grade 8

(beginning with incoming class 2009)

The Special Education Program consists of ten courses and, according to the Pennsylvania Department of Education's regulations, may only be taken as a dual major with the PreK–Grade 4 Early Childhood Education or the Grade 4–Grade 8 Middle Level majors. Student teaching experiences are provided in two settings: one in a regular school setting and the second in a special education setting. Program graduates are certified to teach in early childhood education programs and in special education in the PreK to grade 8 grade levels.

Degree Requirements:

Students must complete a dual major in early childhood education plus special education.

Degree: Bachelor of Science in early childhood education. There is not a separate degree in special education.

Courses in Special Education (SPE):

250. Cognitive Development of Diverse Learners. This course is designed to introduce all categories of disability. Specific attention will be given to the potential cognitive, physical, social, behavioral, and language differences in children with disabilities. Delivery approach will include, but not be limited to lecture, case study discussions, and student presentations. 3 credits.

255. Special Education Processes and Procedures. This course will begin with a historical overview of the field of special education, including key legislation and litigation that drives current practice. Assessment tools for diagnosing disability will be introduced, as well as assessment tools for documenting student progress. In addition, collaboration, and communication skills essential for working as a part of the special education team will be practiced and further developed. Delivery approach will in-

clude, but not be limited to: lecture, field experiences, and hands-on experience with various assessments. 3 credits.

258. *Effective Instructional and Behavioral Strategies for Students with Disabilities.* The focus of this course content will be on (a) behavioral principles and their application in the classroom, (b) literacy development and literacy interventions for students with disabilities, and (c) evidence-based instructional strategies in other content areas, such as mathematics, social studies, science, and the creative arts. Delivery approach will include, but not be limited to: lecture, case study applications, field experiences, hands-on experience with various literacy programs, and student presentations. Prerequisite: Restricted to Music majors and transfer students. 3 credits.

260. Evidenced Based Effective Instruction in Educating Students Identified with a High Incidence Disability. This course is designed to provide in-depth study of the high incidence disabilities (i.e., specific learning disabilities, speech and language impairments, mental retardation, emotional disturbance, and other health impairments). Specific attention will be given to the etiologies of various diagnoses, their prevalence, and their characteristics. Students will be prepared to offer special education using a least restrictive environment-school wide delivery model. Delivery approach will include, but not be limited to: lecture, case study discussions, research papers, and text analysis. Prerequisites: EDU 140, permission of the instructor. 3 credits.

263. Intensive Math and Content Area Intervention Approaches. The focus of this course will be on systematic, direct instruction approaches for teaching mathematics to students who perform below grade level. In addition, this course will address adaptations and accommodations for the content areas of social studies, science, and health for those students with disabilities who read below grade level and, therefore, have difficulty reading grade level textbooks. Delivery approach will include, but not be limited to: hands on experience with systematic mathematics programs, lesson plans, small group work, and field experiences. Prerequisites: EDU 140, permission of the instructor. 3 credits.

266. Evidenced Based Effective Instruction in Educating Students Identified with a Low Incidence Disability. This course is designed to provide in-depth study of the low incidence disabilities (i.e., autism, developmental delay, multiple disabilities, deafblindness, visual impairments, hearing impairments, orthopedic impairments, traumatic brain injury). Specific attention will be given to the etiologies and medical aspects of these diagnoses, their prevalence, and their characteristics. Instructional planning and assessment of student progress for these populations will be emphasized. Delivery approach will include, but not be limited to: lecture, case study discussions, research papers, and text analysis. Prerequisites: EDU 140, permission of the instructor. 3 credits.

269. Positive Behavioral Supports – Evidence Based Behavioral Intervention and *Prevention*. This course will begin with study of behavior theories and researchers, as well as principles of applied behavior analysis. Students will learn how to use functional assessment of student behavior to hypothesize the functions of behavior and to plan appropriate and positive interventions. Students will learn how to measure and record behavioral data. Focus will be on prevention of problem behavior as well as how

to manage challenging behaviors, both from a classroom and a school wide perspective. Delivery approach will include, but not be limited to: lecture, case study applications, field experiences, lesson plans, and research papers. 3 credits.

360. *Intensive Language Arts Intervention Approaches.* The focus of this course content will be on intensive language arts interventions for those students with disabilities who need systematic, direct instruction in order to become competent readers and writers. A variety of literacy programs will be examined, as well as language arts strategies and approaches which have been found effective for struggling readers. The requirements for a writing process course will be fulfilled through a case study paper and a research paper. Delivery approach will include, but not be limited to: case study papers, research papers, student presentations, simulations, field experiences, hands-on experience with various literacy programs, and lesson plans. Prerequisites: EDU 140, permission of the instructor. 3 credits.

363. Assessment in Special Education. This course will involve an in-depth examination of assessment, to include universal screenings; diagnostic assessments to diagnose disabilities; authentic assessments; and benchmark, formative, and summative tools. Students will practice administering and scoring various assessments. They will analyze student progress data and use that data for writing IEP goals and for instructional planning. Delivery approach will include, but not be limited to: text analysis, field experiences, case study analyses, and hands-on experience with various assessments. Prerequisites: EDU 140, permission of the instructor. 3 credits.

366. Collaboration and Communication – Advocacy, Leadership, and Ethical Practice. This course will begin with an examination of the professional and ethical standards expected of both general and special educators. Review of special education legislation and litigation will be conducted as it relates to safeguarding student health and welfare and in order that special education certifiers will have the knowledge to effectively advocate on behalf of their students with disabilities. In addition, collaboration and communication skills will be practiced and further developed through co-teaching opportunities and participation on special education teams. Delivery approach will include, but not be limited to: field experiences, class discussions, simulations, and reflective writing. Prerequisites: EDU 140, permission of the instructor. 3 credits.

Special Education Certification Program Prior to fall 2009

Cognitive, Behavior, Physical/Health Disabilities (CBP/HD)

(This program is being phased out of the curriculum and will not be available to students entering LVC after the spring 2009 semester.)

The Special Education Program consists of five sequential courses and operates in conjunction with the Elementary, Music Education, or Secondary Education Programs. Students complete a full sequence of course work in their majors in addition to their specialized course work in special education. Student teaching experiences are provided in two settings: one in a regular school setting and the second in a special education setting. Program graduates are certified to teach in regular elementary, music education,

or secondary school programs and in special education programs for students with mental retardation, learning disabilities, behavior disorders, autism, orthopedic impairments, or multiple disabilities, grades K through 12.

Students pursuing special education certification must at the same time be seeking either elementary, music education, or secondary teacher certification. Special education certification cannot be taken apart from one of these other areas.

Post-baccalaureate candidates who already have a currently valid teaching certificate may apply for admission to the special education program. Each candidate's credentials will be reviewed on an individual basis to ensure adequate preparation for admission to the special education program.

Each course in the program includes mandatory weekly field experiences in a special education setting over the course of the entire semester. One half of the student teaching semester will be completed in a special education setting.

Degree Requirements:

There is no major in special education. Students complete the requirements in their majors and in the chosen area of certification relative to that major and the required courses in special education.

Degree: Bachelor of Arts or Bachelor of Science in the chosen major. (Majors: art, biology, chemistry, elementary, English, French, German, Spanish, mathematics, music education, physics, psychology [social science] and the social studies [citizenship education].)

Courses in Special Education (EDU):

313. Managing Instructional and Behavioral Components in Special Education and Included Classrooms. The absolute necessity of knowing how, when, why and the what of dealing effectively with students who have special learning needs will be addressed in this course. Ways of observing, of recording and of responding to student behaviors will be developed. Intervention strategies will be studied and evaluated. Classroom management will be analyzed and reflectively applied. Includes a required weekly field experience in a special education setting. Prerequisites: EDU 110, 310, 311, 312. 3 credits.

314. Assessment, Evaluation, and Response Strategies for Students with Exceptionalities. Special education professionals need to use caution in the assessment process and in making educational decisions. There continues to be a need to understand the consequences of labeling and segregating individual students. This course will address the assessment process in light of current research and legislation concerning special education, with attention to recent state and federal legislation and revised mandates. This course also focuses on curriculum based assessments and performance based assessments used to evaluate the rate and quality of student learning and the effectiveness of teacher instruction on an ongoing basis. Includes a required weekly field experience in a special education setting. Prerequisites: EDU 110, 310, 311, 312, 313. 3 credits.

English as a Second Language (ESL)

(This program is being phased out of the curriculum and is not available to students entering LVC after the spring 2009 semester.)

The ESL Program consists of four sequential courses and operates in conjunction with the Elementary, Music Education, or Secondary Education Programs. Students complete a full sequence of course work in their major in addition to their specialized course work in ESL. Program graduates are certified to teach in regular elementary, music education, or secondary programs and are qualified to apply for Program Specialist Certification for ESL.

Students pursuing ESL program specialist certification must at the same time be seeking either elementary, music education, or secondary teacher certification. ESL certification cannot be taken apart from one of these other areas.

Post-baccalaureate candidates who already have a currently valid teaching certificate may apply for admission to the ESL program. Each candidate's credentials will be reviewed on an individual basis to ensure adequate preparation for admission to the ESL program. Each course in the programs with the exception of EDU 320 includes field experience in an ESL or inclusive setting.

Degree Requirements:

There is no major in ESL. Students complete the requirements in their majors and in the chosen area of certification relative to that major and the required courses in ESL.

Degree: Bachelor of Arts or Bachelor of Science in the chosen major. (Majors: art, biology, chemistry, elementary, English, French, German, Spanish, mathematics, music education, physics, psychology [social science] and social studies [citizenship education]).

Courses in ESL (EDU)

328. Assessment and Performance. An assessment course with an emphasis on developing and using varieties of multiple assessments for levels/stages of language proficiency, acquisition, and social and subject matter learning. Students become familiar with current Pennsylvania Department of Education approved assessments. The course exposes students to school support services for ESL students such as: "intake" or initial screening, LEA systems for intervention for ESL students "at-risk" of learning problems and Instructional Support Teams (IST). School support policies for the protection of ESL students in IST or team staffings and LEA models for providing instruction in inclusive settings are also presented and discussed. This course will also examine support services that actively recruit culturally and linguistically diverse (CLD) families for helping to develop and assist in these services. Models of program evaluation using PDE approved assessment instruments for ESL students will be explained. The course includes a required two-hour-per-week field experience in local programs designed to meet the needs of the ESL student. Prerequisites: EDU 324, course restricted to elementary or secondary certification candidates, in-service teachers seeking a Program Specialist Certification for ESL, or permission of instructor. 3 credits.

332. Cultural Awareness – Language, Culture and the Classroom. The course provides important connections between theory and practice. This course also examines the

impact of culture and cultural adjustment on learning for ELLs. The course addresses these many questions: What cultural differences most impact students' learning? What is the link between culture and language? Why learn about culture? What questions should teachers be asking about students' cultures to understand multicultural students better? How can we help students adjust to our culture while learning language and academics in schools? What do teachers need to know about the cultural adjustment process and why? How can we respect cultural diversity, encourage students to maintain first culture and language while still adjusting to their new culture, without denying our own US culture in the process? Is it really necessary for an ESL or classroom teacher to be knowledgeable about other cultures? What does an ESL teacher need to know about world cultures that will enhance his/her teaching skills and classroom management? What do ESL/EFL students need to know about each others' cultures? This course will explore answers to these questions, with a focus on intercultural communication, creating understandings between people of different cultures, backgrounds and communication styles. Topics will include socioculture, psychocultural, and environmental influences on language and communication, and how teachers can utilize this knowledge to make instruction of multicultural children more effective and enjoyable by capitalizing on diversity. Parameters for understanding culture, the acculturalization process, exploring various cultures, understanding multicultural children, and creating multicultural learning communities will also be topics for consideration. Students investigate the technology and resources available for the teaching of ESL. Applications of "best practices" to classroom settings are an integral component of the course. The course includes a required two-hour-per-week field experience in local programs designed to meet the needs of the ESL student. Prerequisites: EDU 324, EDU 328, course restricted to elementary or secondary certification candidates, in-service teachers seeking a Program Specialist Certification for ESL, or permission of instructor. 3 credits.

Faculty

Cheryl L. George, professor of education.

Ph.D., University of North Texas.

She serves as the director of special education, teaches courses in special education, and is the departments liaison with special education administrators and teachers in the intermediate units and in the school districts of the surrounding areas. She supervises student teachers and is the advisor to the Student Council for Exceptional Children.

Elizabeth M. French, assistant professor of education.

M.Ed., Mansfield University, 1975.

She teaches courses in special education and supervises student teachers. Her research interests include engaging student and faculty in learning, and inclusionary practices. She is a member of the Council for Exceptional Children, National Association of Professional Women, and the Lebanon County Educational Honor Society.

Donald E. Kline, associate professor of education. Chairperson.

Ed.D., Lehigh University.

He teaches courses in educational technology and supervises student teachers. He serves as the director of instructional design and technology in the department and pro-

motes the integration of the computer and other instructional media in all phases of teacher preparation. He is the College liaison with the Pennsylvania Department of Education, Pennsylvania Science Teachers Association and the National Science Teachers Association.

Herbert Steffy, associate professor of education.

Ed.D. University of Central Florida.

He teaches in courses in the areas of elementary and middle school science and mathematics and supervises student teachers. His special interest is middle childhood education, especially teaching math and science in the middle grades. He serves as the liaison with the National Middle School Association.

Dale E. Summers, professor of education.

Ed.D., Ball State University.

He teaches senior seminars and courses in educational foundations and elementary social studies, and supervises student teachers. He maintains a particular interest in special education for students with behavior disorders at both the elementary and secondary levels. He serves as the College and department liaison with the Lebanon County Chamber of Commerce.

Linda L. Summers, assistant professor of education and director of field experiences. *M.A., Ball State University.*

She oversees course-required field experiences and supervises student teachers. She teaches courses in language arts, social studies, and health education.

Karen Walker, associate professor of education.

Ed.D., Bowling Green State University.

She teaches courses in educational foundations and secondary methods and supervises student teachers. Areas of interest include middle-level education, how students at that age learn and respond to the world around them, and how to meet the needs of every student through the utilization of brain-based learning research, differentiated instruction, learning styles, and multiple intelligences.

M. Jane Yingling, associate professor of education.

Ph.D., Marywood University.

She serves as assistant to the director of special education. She teaches courses in both special education and elementary education, oversees required field experiences, and supervises student teachers. Her areas of interest include working with children with mild to moderate learning disabilities, inclusion, brain-based learning and resiliency, and literacy.

DEPARTMENT OF ENGLISH

English Program

The major in English introduces students to the humanistic study of language. While English majors may choose to concentrate in literature, communications, theater or secondary education, the basis for all concentrations is the study of literature: imaginative, complex, and challenging texts in a variety of genres and media. All majors learn the skills of clear, concise and correct expression as well as of effective collection, organization and presentation of material. Such study prepares the student for graduate work in literature, theater, or communications, or for professional study in such fields as law and theology. Graduates of the Department of English also are prepared to work in publishing, teaching, editing, public relations, journalism, advertising, marketing, theater, business, and other professions.

Independent Study: Juniors and seniors with a minimum 2.00 GPA, who wish to study an in-depth topic that is not covered in any offered courses, may choose to take an independent study. For every semester hour of credit, the student must complete at least 45 clock hours of time working on what should ultimately result in a final formal document. Students are responsible for completing the necessary application forms (available in the registrar's office) and finding a professor to oversee their progress.

Students may enroll in a maximum of three credit hours per independent study in any one semester. A maximum of six credit hours in independent study may be used to-ward the graduation requirements.

Departmental Honors: English majors with a minimum 3.0 cumulative GPA and 3.50 major GPA at the end of their junior year may choose to apply for departmental honors in conjunction with an independent study. Details are available in the *English Department Handbook*.

The English Department offers minors in literature, communications, and theater.

Degree Requirements:

Degree: Bachelor of Arts with a major in English.

Major: Core requirements: ENG 120; three from 221–229 (at least two of the three must be from 221–226); 321; 341 or 342 (18 credits). Students must choose one of the concentrations below in addition to the core.

Literature concentration: Three additional survey courses (ENG 221–229); 370; three from among 330, 350, 375, 390-literature, 420, 421 (21 credits).

Communications concentration: ENG 099, 140; five additional communications courses, at least two of which must be at the 300 level (201 or 202, 210–216, 310–316, 380, 390-communications); at least three credits of 400 (21 credits).

Theater concentration: ENG 180; 201, 202, 204; three credits of 301; two additional drama-related courses from among the following: 330, 341 or 342, 350, 390-literature, 400 (21 credits).

Secondary Education concentration: One additional survey course from ENG 221–229 (the total of four surveys must include at least three from 221–226); 201; 213; three from among 330, 350, 370, 390-literature, 420, 421 (18 credits). Certification candi-

dates must also complete 33 credits in additional required coursework. See the Education Department section on pages 84–85 for additional information.

Minor (Literature): ENG 120; 221 or 222; two from 225–229; two additional 300 or 400-level literature courses (18 credits).

Minor (Communications): ENG 120, 140, 221 or 222; three additional communications courses (201–216, 310–316, 380, 390-communications) (18 credits).

Minor (Theater): ENG 120, 180, 204; one from 201 or 202, or three credits of 301; 341 or 342; three additional credits to be selected in consultation with the student's adviser (18 credits).

Courses in English (ENG):

099. *Internship Portfolio.* A formal collection of the student's completed communications-oriented work, to be submitted to the department as part of the student's formal request to take ENG 400 (Internship). Offered every semester. Graded satisfactory/unsatisfactory. 0 credits.

111, 112. English Communications I, II. Both semesters help the student find her or his own voice within the demands and expectations of academic and public expression. Both courses emphasize the development of clear, organized and rhetorically effective written prose. 112 also emphasizes speaking, reading and research skills. Prerequisite for 112: 111, FYS 100, or permission of chairperson. 3 credits.

120. Introduction to Literature. An introduction to literary genres and to the basic methodology, terminology and concepts of the study of literature. Usually offered every semester. 3 credits.

140. Introduction to Mass Communications. An introduction to career-oriented uses of language and to the skills used universally by reporters, editors, advertising copywriters, public relations personnel, and technical writers. Usually offered every semester. 3 credits.

180. Introduction to Theater. An introduction to the study of theater arts, using the study of representative theater texts from different periods and genres while tracing the evolution of the means—the techniques of acting, stagecraft, and playwrighting—by which these texts have been brought to performance from ancient times to the present. Usually offered alternate fall semesters. 3 credits.

201. *Introduction to Acting.* The development of skills in speech and movement through the use of theater games and improvisations. Usually offered fall semester. 3 credits.

202. Advanced Acting. An exploration of the relationship between the actor and the text through script analysis and the performance of scenes and monologues. Usually offered spring semester. 3 credits.

204. Theater Production and Performance. Instruction in all aspects of producing and performing a full-length play. Usually offered alternate fall semesters. 3 credits.

210. *Management Communications.* The development of writing, speaking and listening skills for professional communications. Prerequisite: ENG 111 and 112, or permission of the instructor. Usually offered alternate spring semesters. 3 credits.

213. Journalism: News Reporting. The development of the basic skills of journalistic writing such as interviewing, covering meetings, gathering and reporting news and writing features according to standard formats and styles. The course also covers legal and ethical aspects of journalism. Writing process. Prerequisite: ENG 111 and 112, or permission of the instructor. Usually offered fall semester. 3 credits.

214. Creative Writing: Poetry. A workshop in writing poetry. Usually offered alternate fall semesters. 3 credits.

215. Creative Writing: Fiction. A workshop in writing short fiction. Usually offered alternate fall semesters. 3 credits.

216. *Technical Applications in Writing.* The development of writing, speaking and illustrating skills to convey specialized, often technical information to a non-technical audience. Prerequisite: ENG 111 and 112 or permission of the instructor. Usually offered alternate fall semesters. 3 credits.

221. Survey of American Literature I. A survey of selected major American authors from the colonial period to about 1900. Writing process. Usually offered every semester. 3 credits.

222. Survey of American Literature II. A survey of selected major American authors from about 1900 to the present. Writing process. Usually offered every semester. 3 credits.

225. Survey of English Literature I. A survey of selected major English authors from the Middle Ages to about 1800. Writing process. Usually offered every semester. 3 credits.

226. Survey of English Literature II. A survey of selected major English authors from about 1800 to the present. Writing process. Usually offered every semester. 3 credits.

227. World Literature I. A survey of selected major writers from earliest literate history to about A.D.1000. This course includes literature from western Europe and non-western cultures. Usually offered alternate fall semesters. 3 credits.

228. *World Literature II.* A survey of selected major writers from about A.D. 1000 to about 1800. This course includes literature from western Europe and non-western cultures. Usually offered spring semester. 3 credits.

229. *World Literature III.* A survey of selected major writers from about 1800 to the present. The course includes literature from Europe and Russia, as well as non-western cultures. Usually offered alternate fall semesters. 3 credits.

301. Acting Lab. A workshop that meets once a week to explore specific issues in acting; course content changes every semester. Usually offered every semester. 1 credit.



310. Advanced Journalism. Enhancement of basic journalistic skills by reading and writing longer investigative and feature articles. Writing process. Prerequisite: ENG 213. Usually offered alternate spring semesters. 3 credits.

312. Writing for Radio and TV. The development of the basic skills of writing news and features for broadcast media. Editing and rewriting press association dispatches, gathering local news, recording interviews, and preparing newscasts and feature programs. Usually offered fall semester. 3 credits.

313. Advertising Copy and Layout. Principles and techniques of copywriting; selection and presentation of sales points; creative strategy in production of layouts. Usually offered alternate fall semesters. 3 credits.

314. Public Relations. Purposes and methods of modern public relations as practiced by business and industry, organizations and institutions, trades and professions. Planning of promotional campaigns. Prerequisite: ENG 213, or permission of the instructor. Usually offered alternate fall semesters. 3 credits.

315. Editing. Editing theory and exercises in copyreading, rewriting and headlining. Writing process. Prerequisite: ENG 213, or permission of the instructor. Usually offered alternate spring semesters. 3 credits.

316. *Journalism in the Digital Age.* Exploration of the ways that digital technology transforms journalistic standards, practices, and values. Theoretical and practical introduction to professional blogs and the use of emerging technologies to create narratives appropriate for multimedia platforms. Covers social, cultural, economic, and political implications of online technologies and applications. Prerequisite: ENG 213 or DCOM 285, or by permission of the instructor. 3 credits. [Cross-list DCOM 316.]

321. History and Grammar of the English Language. An examination of the evolution of English phonology, morphology, syntax and vocabulary, including current conventions and usage. Usually offered spring semester. 3 credits.

330. Literary Genres. A study of one of the various forms of literature, such as narrative poetry lyric poetry, novel, short story, drama, film, essay, biography, and autobiography. The genre will vary from semester to semester. May be repeated for credit when involving a genre that the student has not previously studied. Writing process. Prerequisite: ENG 120 or a 200-level survey (221–229). Usually offered every semester. 3 credits.

341. Shakespeare I. A concentrated study of early Shakespearean drama, especially the comedies and the histories. Writing process. Prerequisite: ENG 120 or a 200-level survey (221–229). Usually offered alternate spring semesters. 3 credits.

342. Shakespeare II. A concentrated study of late Shakespearean drama, especially the tragedies and the romances. Writing process. Prerequisite: ENG 120 or a 200-level survey (221-229). Usually offered alternate spring semesters. 3 credits.

350. *Major Authors.* Intensive study of one or two major literary figures. Recent subjects have included Faulkner, Joyce, Milton, Morrison, O'Connor, Woolf, Pound, and Yeats. The authors will vary from semester to semester. May be repeated for credit. Writing process. Prerequisite: ENG 120 or a 200-level survey (221–229). Usually offered fall semester. 3 credits.

360. The Teaching of English in Secondary Schools. The teaching of writing and literature in the junior high and high school classroom, exploring literary, pedagogical, and composition theory as they apply to actual teaching practice. Writing process. Prerequisites: ENG 120 and EDU 110. Usually offered alternate spring semesters. 3 credits.

370. *Literary Theory and Its Applications.* Consideration of fundamental questions such as the definition of literature, the value of literature, and the validity of the literary canon. Provides an introduction to a variety of critical approaches to literary interpretation on both a theoretical and practical level. Prerequisite: ENG 120. Usually offered alternate spring semesters. 3 credits.

375. Film. This course aims to develop critical thinking skills through analysis and critique of a broad range of foreign and American films, and to enable an understanding of film's history as a form of political, social, and cultural expression. Students will acquire a critical vocabulary, and will be exposed to a variety of critical approaches to film. Prerequisite: ENG 120 or a literature survey (ENG 221-229). 3 credits.

380. *Politics and the Mass Media.* Investigation of the impact of the mass media on the political process and vice versa. Exploration of the history of the interaction between politics and media, and how emerging technologies are changing the face of political communication in the United States. Prerequisites: One of the following: ENG 140; HIS 125, 126, 127; PSC 100, 110, or permission of the instructor. 3 credits.

390. Special Topics. Study of important topics from the viewpoint of literature, communications, or a combination of the two. Past topics have included Sports Literature, Writing the Environment, Native American Literature, Film Criticism, Small Town Life, and Creative Nonfiction. May be repeated for credit when involving a topic not previously studied. Prerequisite: ENG 120, a literary survey, or ENG 213, whichever is most appropriate. Usually offered every semester. Writing process. 3 credits.

400. *Internship.* Practical and professional work experience, on-or-off campus, related to the student's career interests, involving both on-site and faculty supervision. Generally limited to juniors and seniors. All internships are graded pass/fail. Prerequisites: ENG 099; permission of the chairperson; application form from registrar's office must be completed prior to registration. 1-12 credits.

420. *African-American Literature.* An examination of African-American literature as a lens through which students may more clearly view the ways that African Americans have contributed to, been influenced by, appropriated and transformed notions of American identity, specifically conceptions of freedom, equality, gender, sexuality, religion, class, and literature. This course includes the study of slave narratives, fiction, poetry, and/or drama. Usually offered alternate fall semesters. Prerequisite: ENG 120, or permission of the instructor. 3 credits. [Cross-listed with AMS 420]

421. *Literature by Women.* An investigation of the ways in which women from a broad diversity of cultural backgrounds respond to and reshape a tradition of literature that has typically been gendered as masculine. Exploration of the effects of culture, ethnicity, class, sexuality, and religion on women's writing. Special emphasis on the history and construction of gender roles, power, and sexuality. Usually offered alternate fall semesters. Prerequisite: ENG 120, or permission of the instructor. 3 credits.

Faculty

Philip A. Billings, professor of English.

Ph.D., Michigan State University.

He teaches courses in world, American, and contemporary literature as well as poetry and fiction writing. His publications include poems and articles in various magazines as well as three books of poems.

Michelle Bonczek, assistant professor of English.

Ph.D., Western Michigan University.

She teaches courses in creative writing, journalism, and American literature. An award-winning and widely published poet, she is also experienced in layout, design, and editing.

Marie G. Bongiovanni, professor of English. Chairperson.

M.L.A., University of Pennsylvania.

She teaches courses in travel writing, magazine writing, creative nonfiction, and environmental literature. Experienced in journalism, public relations, and freelance writing, she has published one book and numerous articles and essays in national magazines.

Laura G. Eldred, assistant professor of English.

Ph.D, University of North Carolina at Chapel Hill.

She teaches courses in American, British, and Irish literature, mass communications, film, and arts criticism. She has a special interest in postcolonial theory and literature, and has published on the horror genre in film and literature.

Gary Grieve-Carlson, professor of English.

Ph.D., Boston University.

He teaches courses in American literature, American studies, Greek myth, and grammar. He has been a Fulbright Junior Lecturer in Germany and has published on American cultural criticism and 20th-century poetry. Serving as director of general education, he supervises the First-year Seminars.

Walter E. Labonte, instructor in English. Supervisor of interns.

M.A., Northeastern University.

He teaches courses in writing, literature, management communications, and the teaching of English in the secondary schools. He is a published writer and serves the department as supervisor of interns and director of the College Writing Center.

Mary K. Pettice, associate professor of English.

Ph.D., University of Houston.

She teaches courses in journalism, creative writing, and English and American literature. Experienced in the newspaper and publishing worlds, she has published poetry, short stories, and creative nonfiction.

Kevin B. Pry, associate professor of English.

Ph.D., The Pennsylvania State University.

Dramaturge for local theater companies, he teaches courses in acting, world literature, dramatic literature, and theater production. He also advises Wig and Buckle, the student drama club.

Catherine M. Romagnolo, assistant professor of English.

Ph.D., University of Maryland.

She teaches courses in American literature, women's literature, literary theory, and various forms of writing. She has published on topics such as American literature and narrative theory and is working on a project on narrative beginnings.

Robert E. Vucic, lecturer in English.

B.A., Point Park College.

Senior media consultant with extensive experience in news reporting, editing, and publishing, he teaches courses in journalism, editing, and mass communications. He also advises *La Vie Collegienne*, the student newspaper.

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

The Department of History and Political Science seeks to help students on their path to enjoying an intellectually rich life and a successful career, and to providing service to others. The study of history and politics is essential to understanding American society and government and our relationships with diverse communities around the globe. This knowledge is essential for students to understand the realities of the world that they were born into, the values that they inherit and adopt, and the planet that they will help to make. The department helps to promote critical skills in reading and thinking to improve students' written and spoken communication. The department is committed to ensuring that all of its majors are prepared to handle the challenges they will face in their careers, whether their training is in political science, international studies, law, history, historical communications, or secondary education.

Secondary Education Certification

Students shall successfully complete a history or political science major plus the required courses outlined in either the citizenship education (see page 69) or social studies section (see page 170) and in the education department section (see page 84–85).

History Program

By examining human behavior in the past, the study of history can help people better understand themselves and others. Students of history also learn how to gather and analyze information and present their conclusions in clear, concise language.

An undergraduate degree in history can lead to a career in teaching at the college or high school level, law, government, politics, the ministry, museums and libraries, journalism or editing, historical societies and archives, historical communications, or a number of other professions.

Degree Requirements:

Degree: Bachelor of Arts with a major in history.

Major: History 250, 499; four 3 credit 100 level courses. Six electives at the 200 level or above; two must be non-U.S.; two must be 300 level; elective courses can count towards two requirements. 36 credits.

Secondary Education Certification: Students shall successfully complete the history major plus the required courses outlined in either the citizenship education (see page 69) or social studies section (see page 170) and in the education department section (see page 84–85).

Minor: HIS 250; three 3-credit, 100-level courses. Three upper division electives, one of which must be at the 300 level, one of which must be non-U.S. 21 credits.

Historical Communications Program

The History Department offers a historical communications program in conjunction with the English Department, described on page 80. The major in historical communications is an interdisciplinary program that provides the opportunity for interested students to engage in a comprehensive study of both history and communications and their interconnectedness. The program is designed to prepare students for professional research, writing and editing positions in such fields as radio, television, motion pictures, cable, popular history magazines, theatrical history, and oral history. Lebanon Valley College is one of the very few colleges to offer such a major.

Degree Requirements:

Degree: Bachelor of Arts with a major in historical communications.

Major: HIS 250, 400; three 3-credit, 100-level courses. Three upper division electives, one at the 300 level, two non-U.S. Also: ENG 140 and ENG 213. Three additional electives drawn from ENG 210, 216, 218, 310, 312, 313, 314, 315. DCOM 130, 210 or approved special topics courses. 42 credits.

Courses in History (HIS):

103. The Ancient World: The Dawn of Civilization to the Fall of the Han and Roman Empires. A study of the development of civilizations from the development of human civilizations to the end of the first era of empire building in India, China, and the Mediterranean. Topics include the river valley civilizations of Mesopotamia, Egypt, India, and China; the formation of great philosophies and religious traditions in Asia and Greece; and the first empires in the Mediterranean world, India, and China. 3 credits.

104. The Second Age of Empires: World History from the Fall of Rome to the Mongol Invasions. A study of the second phase of empire building in world history, spanning the period from the fall of Rome in 476 to the end of the Middle Ages in Europe and the end Mongol domination in Asia and Russia by 1450. Topics will include the Byzantine Empire; the gradual recovery of Europe after the fall of Rome; the renewal of China under the T'ang and the Song Dynasties; the Islamic dynasties in the Middle East, Africa, India, and China; and the Mongol invasions. 3 credits.

105. Formation of the Modern World. This course is a survey of modern history from ca.1400 to the present. The course will focus on one of the most important aspects of modern history, the processes of colonization and decolonization. The course is framed by three main areas of inquiry. First students explore why it was the Europeans who expanded over the globe from 1500 to 1900. The second theme is the cultural encounter that resulted from European expansion. The final section of the course deals with the twentieth-century. The following themes are covered: colonial resistance, the three-world order, and globalization. 3 credits.

125. United States History to 1865. The major events and developments in America from Columbus to the Civil War, with emphasis on the creation of a distinctive American society from the interaction of different cultures, ethnic groups, and ideas. Major themes include the transformation of European cultural ideas in colonial America and the impact of republican ideology, democratization, and the spread of the market economy between the Revolution and the Civil War. 3 credits.

126. United States History Since 1865. American history from 1865 until the present. Students learn about important themes in recent history such as law and order, native land rights, protest movements, foreign policy and its critics, and the rise of corporate power and its economic and political consequences. 3 credits.

202. *Historical Geography.* An introduction to historical geography and to the concept of historical-geographic change over time in various parts of the world, focusing on prominent scholars and scholarly communities that examine key aspects of contemporary and human physical landscapes, especially with regard to agriculture, land use, urbanization, transportation, settlement, industry, migration, and disease. Prerequisites: Sophomore standing or permission of instructor. 3 credits.

205. *Early Modern Europe*. Selected themes in the cultural, religious, economic, social, and political history of Europe from the end of the fourteenth century to about 1715. After a brief survey of the late Middle Ages, the course will then address focus on the Renaissance, Reformation, age of discovery, and finally state-making in the seventeenth century. Through the examination of these themes the course will chart the shift in the geographic centers of power in early modern Europe from the Mediterranean to Northern Europe and the Atlantic seaboard. Prerequisites: Sophomore standing or permission of the instructor. Writing process. 3 credits.

206. *Revolution and Nationalism.* The course will chart the ways in which the French Revolution and the industrial revolution in Europe shaped the political, economic, social, cultural, and intellectual development of Europe in the nineteenth century. The major themes of the course include the development of the political ideologies that emerged as a result of the French Revolution, industrialization, nationalism, the development of class societies, gradual democratization in parts of Europe, the beginning of the women's movement, challenges to liberalism, and finally, the causes of World War I. Prerequisites: Sophomore standing or permission of the instructor. Writing process. 3 credits.

207. Europe in the 20th Century. An introduction to the main political, social, economic, and intellectual developments in twentieth-century Europe. The major themes of the course include the experience of the two world wars; the development of fascist and communist regimes under Lenin and Stalin, Mussolini, and Hitler; the weakness of the western democracies after World War I; the Holocaust; the Cold War; the Communist Bloc; the end to colonialism; the European Union; the development of the welfare state; and the new nationalism. Prerequisites: Sophomore standing or permission of the instructor. Writing process. 3 credits.

208. Great Britain from 1688 to the Present. Selected themes in British history from 1688 to the present. The course will begin with the Glorious Revolution of 1688 so as to establish the background for an ongoing discussion of Great Britain's parliamentary tradition. Great Britain's industrial revolution, the rise of a working class, and the politics of labor will constitute another set of related themes. The course will also explore Victorianism and cultural developments in the nineteenth century. Other major topics will include British imperialism, the impact of two world wars, and the relationships among the component parts of the United Kingdom (Ireland, Scotland, Wales, and England). Prerequisites: Sophomore standing or permission of the instructor. Writing process. 3 credits.

210. The History of Modern France, 1750 to the Present. A study of French history from 1750 to the 1980s. The course provides an overview of the political, social, economic, and cultural history of France from the late eighteenth to the late twentieth century. The course will address a variety of themes from the standpoint of France's place

Lebanon Valley College

in European history as a whole but also in terms of the uniqueness of the French experience. Some of the themes covered by the course will include: France's revolutionary tradition; the development of a democratic society; the French pattern of gradual industrialization; the persistence of the French peasantry; the socialist movement and syndicalism; the evolution of the radical right; imperialism; French communism; intellectual movements in literature, philosophy and the arts; France and Europe in the post-war period; women in French society; and the role of minorities in France. The course will also examine the ways in which these themes relate to issues confronting contemporary France. Prerequisites: Sophomore standing or permission of the instructor. 3 credits.

217. Women in Modern Europe, 1750 to the Present. An exploration of the position of women in Modern Europe from 1750 to the present. The course focuses around the tensions between women's difference and demands for equal treatment as this theme has played out through history. The course will begin with a discussion of gender in history and then proceed to examination of women in pre-industrial Europe, the French Revolution, the industrial revolution, nineteenth-century reform movements, feminism and the suffrage movement. Twentieth century themes include the "new" woman, women in communist Russia and under the fascist regimes, the impact of two world wars on women's roles, the welfare state, and finally, contemporary feminism. Prerequisites: Sophomore standing or permission of the instructor. Writing process. 3 credits.

220. Colonial America: A History in Red, White, and Black. A study of the interactions between three very different cultures—American Indians, Africans, and Europeans—on the North American continent. Emphasis will be on the ideology and methods by which Europeans came to dominate the area, and how both Indians and Africans struggled to preserve their identity in an increasingly white-dominated colonial world. 3 credits.

226. Age of Jefferson and Jackson. How the old republican ideal of a virtuous agrarian society struggled to confront the new age of economic modernization, social diversity and sectional tension. Prerequisites: Sophomore standing or permission of the instructor. Writing process. 3 credits.

230. American Electoral Politics. This course uses the current presidential election as a case study from which students can analyze the history of American parties and elections. The course will use political science concepts such as realignment and dealignment to study the rise and fall of the various "party systems" in American history, and will attempt to place the current presidential election within its historical context. Pre-requisites: Sophomore standing or permission of the instructor. 3 credits. [Cross-listed as PSC 230.]

240. *American Military History.* An analysis of American military institutions from Old World tradition to the post-Persian Gulf era with emphasis on the U.S. Army. Pre-requisites: Sophomore standing or permission of the instructor. 3 credits.

242. The African-American Experience. Survey of African-American history from the origins of slavery until the present. The course develops several inter-related themes such as slavery, protest movement and civil rights, economic history, and blacks in

Pennsylvania. Prerequisites: Sophomore standing or permission of the instructor. Social diversity studies. 3 credits. [Cross-listed as AMS 242.]

245. Women in America. The role and status of women in American society from the colonial period to the present. It emphasizes the ways that women's paid and unpaid labor has shaped their status and role in the family, society, and the economy. Prerequisites: Sophomore standing or permission of the instructor. 3 credits.

250. The Historian's Craft. An introduction to the basics of historical research and writing. The most important goal of the course is to help students produce a clearly written research paper, with footnotes and a bibliography. A primary source paper and other writing assignments will prepare the students for the achievement of this goal. Class discussion will revolve around analysis of various types of primary sources, secondary sources, journal articles, issues of interpretation, and research methods. The course will also include several research trips to libraries, archives, historical societies, or local history collections. Prerequisites: at least one of the following: History 103, 104, 105, 125, 126 or 127; or permission of the instructor. Writing process. 3 credits.

251. *History and Historians.* The first half of this course covers the lives and ideas of the great historians from ancient times to the modern world; the second half of the course covers recent interpretations of American history. Prerequisites: at least one of the following: History 103, 104, 125, or 126; or permission of the instructor. 3 credits.

273. *African History.* A survey of African history from the origins of humanity until the present. Students learn more about the modern period, particularly the effects of the slave trade, colonialism, and neocolonialism on Africa. Special emphasis is given to the genocides in the Congo Free State at the end of the nineteenth century and in Rwanda at the close of the twentieth. Prerequisites: Sophomore standing or permission of the instructor. Foreign studies. 3 credits.

274. *Colonial Latin America.* A survey of Latin American history, society, political economy, and culture from the late colonial period through the Age of Revolution to the early 21st century, including consideration of major themes such as neocolonialism, dependency, race and racism, U.S.-Latin American relations, revolution, military dictatorship, democracy, the environment, indigenous and women's rights, poverty, and related historical and contemporary issues. Prerequisites: Sophomore standing or permission of the instructor. Foreign studies. 3 credits.

275. *Modern Latin America.* Latin American civilization from the emergence of independent states, relationships with the United States and the modern regional distinctions. Prerequisites: Sophomore standing or permission of instructor. Foreign studies. 3 credits.

301. Evolution for Everyone. This course offers students an introduction to evolutionary theory and empirical research, especially as it applies to history and society. Evolution is powerful, elegant and easily understood. The human frame and brain evolved over time, and understanding how that happened will help understand the past and present of society. Disciplinary Perspectives. Prerequisite: Junior or senior standing. 3 credits.

303. Seminar on the History of South Africa. A seminar on the history of South Africa from the 1600s until the end of apartheid in the early 1990s. Topics include early colonization, conflicts between European settlers and natives and between the English and the Afrikaaner republics, the development of capitalism, the dynamics of black South Africans under apartheid, and the bloody struggle for and against national liberation in the early 1990s. Prerequisites: Junior standing or permission of the instructor. History 273 is recommended. Foreign studies. 3 credits.

304. Seminar on the History of Brazil. A study of the history of Brazil from the colonial period through the present day. The primary focus will be on the period from the arrival of the Portuguese Court in 1808 until the "abertura," or re-democratization of the 1980s. Some of the topics that will be covered in the course include: 1) the historical development of the Brazilian nation-state and 2) the development of a Brazilian "national" culture. Thus recurrent themes will include political organization and participation, economic growth and development, nationalism, authoritarianism and redemocratization, social organization and stratification, cultural production, and race relations. Prerequisites: Junior standing or permission of the instructor, History 274 or 275 is recommended. Foreign studies. 3 credits.

305. History of Mexico. This course examines Mexican history from before the Spanish conquest to the present day. The approach is chronological, topical, and thematic. Critically engaging with a wide variety of course materials, students will gain specific factual knowledge about Mexican history, including major figures, events, and trends; explore how the histories of the United States and Mexico have grown increasingly entwined; and examine diverse aspects of Mexican history, society, and culture. 3 credits.

310. Seminar on World War I. This course provides an in-depth study of World War I. The topics covered include the causes of the war; the military history of the war; the social, economic, and cultural changes that resulted; the terms and consequences of the peace; and the ways in which the memories of the war were constructed. Although the course will focus on Europe where most of the war was fought, students will also examine the impact of the war on Russia and Europe's overseas colonies. Prerequisites: Junior or senior standing and one prior history course or permission of the instructor. Writing process. 3 credits.

312. The American Revolution. An in-depth study of why Americans declared their independence and how they won the Revolution and worked to build a republic in a hostile world of monarchies. Particular attention is paid to major issues on which historians of the period disagree. Prerequisites: Junior or senior standing and one prior history class or permission of the instructor. Writing process. 3 credits.

315. The Civil War. A study of how sectional divisions over slavery led to a bloody war and reshaped American society. Prerequisites: Junior or senior standing and one prior history class or permission of the instructor. Writing process. 3 credits.

330. The Ruling Class. This course offers students a chance to explore the origins, histories, institutions, and current practices of the American aristocracy. Students will learn about how the very rich families that currently enjoy enormous hereditary wealth obtained and maintain their fortunes. Students will also investigate the histories and cur-

rent policies of the institutions that protect and promote the wealthy such as corporations, the stock market, and government. Social diversity studies. 3 credits. [Crosslisted as AMS 330.]

360. The Teaching of Citizenship Education in Secondary Schools. A course for those preparing to teach history, political science, economics, and geography at the secondary level. Topics include issues and trends in secondary education, history of historical pedagogy, professional development and course enrichment resources, teaching techniques, the uses of technology, and student motivational techniques. Required for all history majors seeking citizenship education certification. Does not count towards the major. Prerequisites: admission to the Citizenship Education Program. 3 credits. [Cross-listed as PSC 360.]

400. *Internship.* Field experience related to student's work, research interests, or graduate school plans. A journal and paper in addition to field work are required. Students may take up to 6 credits per semester and up to 12 credits during the summer. Prerequisites: Junior or senior status; overall GPA of at least 2.5; completion of registration forms; approval of internship site by student's advisor prior to registration; approval of department chair. 3–12 credits.

460. Undergraduate Research. This course is designed to provide students in political science, history, and international studies opportunities to obtain credit for engaging in undergraduate research projects under faculty supervision. Students engage in research projects with faculty on a range of topics. subject to approval of the individual faculty member. Courses may be repeated up to a limit of 12 credits; but only up to 6 credits can be applied to the major. Prerequisites: Sophomore standing, 2.5 GPA, and permission of the instructor/chair. 3 credits. [Cross-listed with PSC/HIS 460.]

499. Senior Seminar in History. Focus on a theme in history such as World War I, the industrial revolution, or the Enlightenment. These topics will be approached from a variety of perspectives (economic, political, or social for example) and from the viewpoint of many national histories. Class meetings will include discussion of course readings, research methods, and the historiography related to the theme of the course. Students will write a research paper on some aspect of the course topic utilizing a variety of primary and secondary sources and present their research to the class. Prerequisites: Senior history majors or permission of the instructor. 3 credits.

International Studies Program

International Studies is an interdisciplinary program designed to promote global citizenship and provide students with a core of knowledge and understanding of our interdependent world. Students will explore global issues and events from political, sociological, cultural, historical, and economic perspectives with the goal of developing the skills necessary for a career in public service, the private sector, and academia. It requires students to take an introductory course, advanced level foreign language, engage in undergraduate research or an internship, take a senior seminar course, and participate in a study abroad program.

International Studies majors and minors are required to participate in at least one approved off-campus program offered by the Study Abroad Office. This may include a se-

Lebanon Valley College

mester of study abroad or an approved alternative program, such as exchange programs, mini-terms, short-term, or summer programs. Courses taken in off-campus programs can be accepted for credit to the International Studies major, but approval for such credit is contingent on equivalent courses in the catalog. For a list of approved off-campus programs, please see the study-abroad section.

Majors must also complete either an internship or research track:

- *Internship Track*: earn at least 6 internship credits. This can be accomplished with an international/foreign policy-related internship in the Washington Center program, in a study-abroad program, or in any other LVC-approved internship program (INT 400).
- *Research Track*: students can earn at least 6 credits of undergraduate research. This includes PSC 370 (Research Methods in Political Science) or SOC 311 (Research Methods in Sociology) and at least 3 credits of INT 460 (undergraduate research) in order to meet the requirements of the research component. INT 460 requires students to collaborate with a professor on a research project and is designed so students can hone their research skills in collecting, analyzing, and interpreting information. The purpose of the research option is to assure that students develop research methodologies in line with research objectives.

Degree Requirements:

Degree: Bachelor of Arts with a major in international studies.

Major with International Affairs cohcentration: INT 100, 499; ECN 101, 102, 332; PSC 245; two courses in international politics: PSC 210, 211, 212, 213, 310, 312, 313, 380; two courses in global history: HIS 205, 206, 207, 208, 210, 212, 273, 274, 275, 303, 304, 305, 310, DSP 322; two advanced-level foreign language courses at the 300-level or above; completion of a study-abroad program and internship or research track, as described above (42 credits).

Major with Comparative Culture concentration: INT 100, 499; SOC 110, 120; PHL 110; REL 140; two courses on morality and values: PSC 345, DSP 352, PHL 210, 215, 270, 349, REL 251, 252, 253, 255; two courses on culture and society: ART 114, 312, 314, 318, 322, 324, 326, 334, 336, 338, 350, ENG 227, 228, 229, MSC 202, SOC 240; two advanced-level foreign language courses at the 300-level or above; completion of a study-abroad program and internship or research track, as described above (42 credits).

Minor with International Affairs concentration: INT 100; ECN 101, 102, 332; PSC 245; and one elective from the following: PSC 210, 211, 212, 213, 310, 312, 313, 380, HIS 205, 206, 207, 208, 210, 212, 273, 274, 275, 303, 304, 305, 310, DSP 322; one advanced-level foreign language course at the 300-level or above; completion of a study-abroad program, as described above (21 credits).

Minor with Comparative Culture concentration: INT 100; SOC 110, 120; PHL 110; REL 140; and one elective from the following: PSC 345, DSP 352, PHL 210, 215, 270, 349, REL 251, 252, 253, 255, ART 114, 312, 314, 318, 322, 324, 326, 334, 336, 338, 350, ENG 227, 228, 229, MSC 202, SOC 240; one advanced-level foreign language course at the 300-level or above; completion of a study-abroad program, as described above (21 credits).

Courses in International Studies (INT):

100. Introduction to International Studies. The course will examine global theories that explain patterns of world interaction, cooperation and conflict, and the process of globalization. It places international events into historical context and emphasizes the interrelationships among global institutions and culture. Citizenship at the global, national, and local levels will be emphasized. Foreign Studies. 3 credits.

460. Undergraduate Research. This course is designed to provide students in political science, history, and international studies opportunities to obtain credit for engaging in undergraduate research projects under faculty supervision. Students engage in research projects with faculty on a range of topics, subject to approval of the individual faculty member. Course may be repeated up to a limit of 12 credits; but only up to 6 credits can be applied to the major. Prerequisites: Sophomore standing, 2.5 GPA, and permission of the instructor/chair. 3 credits. [Cross-listed with PSC/HIS 460.]

499. Seminar in International Studies. This seminar will expose international studies majors to readings on issues, events, and theories in international studies as well as allowing them to pursue a research interest within a broad topic area prescribed for each semester the seminar is given. Each student is required to do independent library research and to make an oral presentation under the direction and guidance of the professor. Students are expected to produce a research paper (minimum of 3000 words) that could be presented at an undergraduate research conference. Prerequisites: Major in international studies and junior or senior standing. Writing Process. 3 credits.

Political Science Program

Political scientists study government institutions and the political systems related to them. Students who major in political science take courses to give them a thorough understanding of the American political system, the political systems of other nations, and international politics. Twenty-four of the 39 credits in this major are taken in core requirements, and the remainder consist of elective credits chosen by students in accordance with their interests.

A degree in political science opens the door to a wide variety of careers. Political science majors have become lawyers, high school and junior high school teachers, college professors, journalists, law enforcement officers, business people, consultants, lobbyists, and government officials. The political science major is an integral component of the Pre-law, Criminal Justice, and Citizenship Education programs.

Degree Requirements:

Degree: Bachelor of Arts with a major in political science.

Major: ECN 101 or 102; PSC 100, 110, 210, 245, 345, 370; one course from PSC 497, 498 or 499; five additional elective courses in political science (39 credits).

Minor: PSC 100, 110, 210, 245, 345 and one elective course in political science (18 credits).

Law and Society Minor

The Political Science Department offers a law and society minor which can be taken alongside any major at LVC. The minor is an interdisciplinary program that introduces

Lebanon Valley College

students to the American legal system through a study of the United States Constitution and its normative and political context. The program is expected to be of particular use to those students who intend to apply to law school. An internship and a capstone seminar in legal foundations are required for this minor.

Degree Requirements:

Minor: PHL 120; PSC 215, 316, 400, 497; and either PHL 215 or PHL/PSC 345 (18 credits)

Courses in Political Science (PSC):

100. Introduction to Political Science. This course is designed as a broadly-based introduction to the discipline of political science. It will acquaint students with the concepts, structures, trends, and belief systems that form the basis of political activity throughout the world. Those taking the course will leave with an enhanced understanding of the multiple ideologies, institutions, issues, and actors that shape and drive politics. 3 credits.

110. *American National Government.* This course provides a survey of key developments, institutions, and issues in American politics. Topics include the ideas that shaped the original American political system, the presidency; Congress and federal courts; the operation of political parties and interest groups; domestic and foreign policy debates; and contemporary issues such as civil rights and affirmative action. 3 credits.

210. Comparative Politics. This is an introduction to the study of comparative politics: the comparison of political systems in order to understand how and why these systems function differently. The course is built around three fundamental questions: What is comparative politics? What kinds of phenomena do we compare? What are the major theoretical approaches that guide our studies? We also examine distinctions between the "developing" and the "developed" worlds, and between authoritarian and democratic political regimes. Prerequisites: sophomore standing or permission of the instructor. 3 credits.

211. The Developing Nations. A survey of the developing nations of Latin America, Asia, Africa, and the Middle East. This class explores why some countries are "developed" and others not. The course examines some of the major explanations for development, both economic and political. Following an overview of each of the developing regions, the class will analyze some of the major issues facing developing nations today. Topics include democratization, religion and politics, ethnic conflict, women and development, and revolution. Prerequisites: sophomore standing or permission of the instructor. Writing process. Foreign studies. 3 credits.

212. *Politics of Latin America.* The course is designed as an introduction to Latin American politics. We focus on two major trends that have characterized the region throughout its post-independence history: episodic waves of political democratization and democratic breakdown, and a common but changing series of economic systems. We also examine the political role played by the military, the quest for political equality among various groups in society, and the evolving political and economic relationships between Latin American states and the U.S. Foreign Studies. 3 credits.

213. *Politics of the Middle East.* Sometimes called the cradle of civilization, the Middle East is home to approximately 330 million people, vast oil resources, and the world's fastest-growing religion. It also faces formidable political, social, and economic challenges. In fact, it may well be the most contentious region in the world today. This course examines selected domestic and international political developments in the modern Middle East. We discuss Arabism, political Islam, secular-religious tensions within and between Middle East states, and state-society relations (e.g., opposition movements, human rights, gender issues). We also analyze international relations within and without the region, namely the Arab-Israeli conflict, the Iraq-Iran conflict, and U.S. foreign policy toward the region (including the impact of the war on terrorism). We will supplement our readings and discussions with several films and periodic guest speakers (depending upon availability). An underlying theme of the course is the potential for democratization in the Middle East. Foreign Studies. 3 credits.

215. Law and Government. This course uses key cases to study important doctrines established by the Supreme Court with respect to the structure and functions of the constitutional system (judicial, legislative and executive power and federalism). Students will also examine the Court's rulings concerning election law, voting rights, and constitutional protections of property rights and related contractual obligations. There is a particular emphasis on various forms of textual interpretation used by individual justices to apply the Constitution in deciding cases and writing opinions. Prerequisites: sophomore standing or permission of the instructor. PSC 110 recommended. 3 credits.

230. Electing the President. This course uses the current presidential election as a case study from which students can analyze the history of American parties and elections. The course will use political science concepts such as realignment and de-alignment to study the rise and fall of the various "party systems" in American history, and will attempt to place the current presidential election within its historical context. Prerequisites: sophomore standing or permission of the instructor. 3 credits. [Cross-listed as HIS 230.]

245. *International Relations.* This course is designed to introduce students to the study of international relations. The course hinges on a series of questions: Who are the principal actors in the international system? What are the theoretical ways of discerning why these actors do what they do? How has the international system evolved into its present form? What are the central issues confronting the international system? 3 credits.

250. *Public Policy Analysis.* This course describes the public policy process and analyzes various areas of substantive domestic policy at the national level. Topics covered include budgeting and taxation, education, health, welfare, and the environment. Prerequisites: sophomore standing and PSC 110 or permission of the instructor. Writing Process. 3 credits.

255. *Public Administration.* Probably no aspect of the U.S. political system has been more vilified than governmental bureaucracy. Yet public administrators are the main touchstones with government for most citizens. Whether it is cops on the beat, fire-fighters responding to a five-alarm fire, or a host of other jobs in the public sector, the fact is that we depend on the skills and dedication of government employees for the delivery of services in our everyday lives. Given its centrality to the understanding of the political process, this course is of value to all citizens in a democracy and will be

Lebanon Valley College

particularly useful for students who are interested in going into government work. We explore the relationship between the political environment and the bureaucrat, study the chief functions of the working bureaucracy, and give students a better feel for the dilemmas facing administrators in a public environment through the use of case studies and simulations. 3 credits.

261. Congress and the Legislative Process. An examination of the Congress as an institution undergoing dynamic change; emphasis upon recruitment of legislators, institutional and informal rules, the committee system, and legislative procedures. 3 credits.

262. *The Presidency in the Political System.* Both the institution of the presidency and the person of the president will be examined from a number of analytical perspectives. Some of the specific topics we will be covering include: presidential history; the relationship between the presidency and the public via campaigns and elections, public opinion, the mass media, political parties, and interest groups; the presidential institution and the psychological elements of presidents; inter-branch relations among the presidency, Congress, and the courts; and the presidency and domestic, economic, and foreign policymaking. 3 credits.

310. Comparative Political Institutions. Institutions are generally defined either as the structures of politics, or the rules of the political game accepted by all—or virtually all—important players. Traditionally, the most important of these political institutions are the constitution, the executive, the legislature, and the judiciary. In this course, we will examine major political institutions from a comparative perspective. We consider cases in both the developed and developing worlds. Prerequisites: junior standing and PSC 210 or permission of the instructor. 3 credits.

312. American Foreign Policy. This course offers a two-part examination of American foreign policy. The first part will be an extensive survey of U.S. foreign policy from its inception as a nation through today. A critical theme will be the U.S. tradition of unilateralism, not isolationism. The second part will examine the policy-making process itself, focusing on the multiple actors and cross-cutting interests that comprise U.S. foreign policy decision-making. Prerequisites: sophomore standing or permission of the instructor. Writing process. 3 credits.

313. Diplomacy and Security Studies. The course will examine all areas in which contemporary U.S. security policy is formulated and implemented. The overall goal of the course is for students to develop their abilities to interrelate the concepts and substance of U.S. security. Writing Process. 3 credits.

316. Civil Liberties and Civil Rights. This course uses key cases to study important doctrines established by the Supreme Court with regard to civil rights and civil liberties. Students will examine the Court's rulings concerning the establishment and free exercise of religion, protection of freedom of speech and of the press, privacy rights (abortion and sexual freedom), the rights of the accused in the criminal justice system, and the law governing racial or sexual discrimination. The course places particular emphasis on various forms of textual interpretation used by individual justices to apply the Constitution in deciding cases and writing opinions. Prerequisites: sophomore standing or permission of the instructor. PSC 215 recommended. 3 credits.

320. Electoral Politics. The dynamics of the electoral process in the United States, with emphasis on the role of parties, public opinion and interest groups. Prerequisites: PSC 110, sophomore standing or permission of the instructor. 3 credits.

330. State and Local Government. Governmental institutions, characteristics of state and local political systems and the major inter-governmental problems in state and local relations with the federal government. Prerequisites: sophomore standing and PSC 110 or permission of the instructor. Writing Process. 3 credits.

345. Political Philosophy. Students in this course study the development of Western political thought from Classical Greece to modern times, examining the conceptual evolution of citizenship, civic obligation, and the nature of justice, and exploring the connection between moral and positive law in the western tradition. Prerequisites: junior standing or permission of the instructor. Writing process. Disciplinary perspectives. 3 credits. [Cross-listed as PHL 345.]

360. The Teaching of Citizenship Education in Secondary Schools. A course for those preparing to teach history, political science, economics, and geography at the secondary level. Topics include issues and trends in secondary education, history of historical pedagogy, professional development and course enrichment resources, teaching techniques, the uses of technology and student motivational techniques. Required for all political science majors seeking citizenship education certification. Does not count towards the major. Prerequisites: admission to the Citizenship Education Program. 3 credits. [Cross-listed as HIS 360.]

370. *Research Methods in Political Science.* This is an introduction to the design and evaluation of political research: formulating clear hypotheses, developing appropriate measures, an analyzing data using simple statistical methods and qualitative techniques; emphasizes clear exposition of arguments, interpretations, and findings. Prerequisites: junior standing or permission of the instructor. 3 credits.

380. EU Simulation. This course will offer an enrishing, hands-on, interdisciplinary exploration of the dynamic processes of policy formation in the core institutions of the European Union. Students will prepare for participation in the simulation held each November in Washington, D.C., organized by the mid-Atlantic European Union Simulation Consortium (MEUSC). This experiential learning program endeavors to connect American students to EU policy makers and policy making in a unique way. Students will be engaged in discussions and debates about the EU. A distinct theme is chosen as the focus of the simulation each year. Disciplinary Perspectives. 3 credits.

400. *Internship.* Field experience in law- or politics-related environment. Prerequisite: GPA of 2.50 in major and permission of department chair. Students taking more than six internship credits in political science please note: PSC 400 may count for no more than two elective courses in the PSC major. 1-12 credits.

460. Undergraduate Research. This course is designed to provide students in political science, history, and international studies opportunities to obtain credit for engaging in undergraduate research projects under the faculty supervision. Students engage in research projects with faculty on a range of topics, subject to approval of the individual

faculty member. Course may be repeated up to a limit of 12 credits; but only up to 6 credits can be applied to the major. Prerequisites: sophomore standing, 2.5 GPA, and permission of the instructor/chair. 3 credits. [Cross-listed with PSC/HIS 460.]

497. Seminar in Legal Foundations. This capstone seminar examines the historical and philosophical development of constitutional law in the United States; the seminar emphasizes the dynamic relationship between the law and moral and political philosophy. Prerequisites: junior or senior standing and completion of PHL 215, PHL/PSC 345 or PHL/PSC 342. Writing process. 3 credits.

498. Seminar in U.S. Politics. This seminar allows junior and senior political science majors to pursue a research interest in U.S. politics within a broad topic area prescribed for each semester the seminar is given. Prerequisites: Major or minor in political science and junior or senior standing. Writing process. 3 credits.

499. Seminar in World Politics. This seminar allows junior and senior political science majors and minors to pursue a research interest in politics outside the U.S. within a broad topic area prescribed for each semester the seminar is given. Prerequisites: major or minor in political science and junior or senior standing. Writing process. 3 credits.

Faculty

Philip J. Benesch, associate professor of political science.

Ph.D., University of Delaware.

He teaches courses in political philosophy, constitutional law and American government. His research interests include Socratic, Marxist, and modern democratic political theory, and the intersections of law and normative philosophy. He serves as the College's pre-law advisor and directs the minor in law and society.

James H. Broussard, professor of history.

Ph.D., Duke University.

He teaches American history and historiography. His research and publications concentrate on the Jefferson-Jackson era, the South, and American politics. He formerly served as executive director of the Society for Historians of the Early American Republic.

Christopher J. Dolan, assistant professor of political science.

Ph.D., University of South Carolina. .

He teaches U.S. politics and international relations is such areas as presidential politics, U.S. foreign policy, U.S. national security policy, relations between the executive and legislative branches, economic policy, and other related topics. He has written numerous articles and books. including such titles as The Presidency and Economic Policy, In War We Trust, and Striking First: Preventative Doctrine and the Reshaping of U.S. Foreign Policy.

John H. Hinshaw, associate professor of history. Chairperson.

Ph.D., Carnegie Mellon University.

He teaches courses on modern American history, black history, urban history, African history, world history, labor history, and specialized courses in race and ethnicity. He

has written and edited books on the industrial revolution in world history, the steel industry and steel workers in Western Pennsylvania, and the labor movement in the United States.

Diane E. Johnson, associate professor of political science.

Ph.D., University of Santa Barbara.

She teaches introduction to political science, research methods, and lower-and upperlevel courses in comparative politics, including Latin American politics, Middle Eastern politics, the politics of developing nations, and comparative political institutions. Her main research interests are democratization, the effects of globalization, and political communication. She specializes in the politics of Latin America.

Rebecca K. McCoy, associate professor of history.

Ph.D., University of North Carolina at Chapel Hill.

She teaches world civilization and specialized courses in European history. Her research focuses on the social, religious and political history of France from the 17th to the 19th century. Other teaching and research interests include the history of European women, 20th-century Europe, and the development of nationalism and national identity.

Michael J. Schroeder, assistant professor of history.

Ph.D., University of Michigan.

A social, cultural, and political historian specializing in Latin America and Nicaragua, he is co-author of the widely used college textbook *The Twentieth Century and Beyond* (McGraw-Hill, 2007) and author of numerous scholarly articles and chapters in his area of expertise. His teaching interests embrace the Atlantic World since 1500 with a focus on the United States and Latin America since the Age of Revolution.

Jean-Paul Benowitz, adjunct instructor in history.

M.A., Millersville University.

He teaches American history. His research and teaching interest is on U.S. political history for the period since 1928, with particular focus on the Roosevelt-Truman and Kennedy-Johnson administrations. Related fields of interest include social, cultural and diplomatic history for the period since 1945. He is completing a Ph.D. at Temple University.

Adam Bentz, adjunct instructor in history. *Ph.D., candidate, Lehigh University.*

Kelly O'Brien, adjunct instructor of history. *B.A., Lebanon Valley College.*

Michael Worman, adjunct instructor of political science.

Ph.D., Florida State University.

He teaches courses in public administration, American public policy, and state and local politics. He has 25 years of senior level administrative experience in the public sector and has served in both appointive and elected positions in state and local government.

DEPARTMENT OF LANGUAGES

Our programs have three broad goals: to develop communication skills in another language, to provide an understanding of the cultural heritage of the people who use that language, and to understand language as the fundamental medium by which humankind thinks and interacts.

The Department of Languages prepares its majors for a career in a variety of fields: teaching, diplomatic and government service, world trade, business, and social service. For many of these careers students combine the study of a language with a major in another discipline.

The department encourages students to take advantage of the College's opportunities for travel and study, particularly Lebanon Valley College programs in Berlin and Würzburg, Germany; Montpellier, France; Valladolid, Spain; Buenos Aires, Argentina; and Perugia, Italy.

The Department of Languages offers the major in French, German, and Spanish; secondary teacher certification in French, German, and Spanish; a minor in French, German, and Spanish; and Italian at the elementary level.

Teacher Certification

In addition to majoring in a language, students seeking certification to teach a language must take and complete 33 credits in additional required coursework. See the education department section on pages 84–85 for additional information.

French Program

Degree Requirements:

Degree: Bachelor of Arts with a major in French.

Major: 27 credits in French above the intermediate level including FRN 340 and at least 6 credits of 400-level writing process courses.

Minor: 18 credits in French above the elementary level. Courses in advanced conversation and composition as well as in culture are strongly recommended.

Our program in Montpellier, France, is designed for students with varying abilities in French. This program is located at the University of Montpellier in southern France near the Mediterranean Sea. Students are placed in courses at a level appropriate to their skills. All courses are in French.

Courses in French (FRN):

101, 102. Elementary French I, II. Introductory courses in French. Aimed at developing basic communicative proficiency in French, and offering insights into French-speaking cultures. 3 credits.

201, 202. Intermediate French I, II. Review of material typically covered in a first-year French course. Aimed at building students' proficiency in all four language skills—listening, speaking, reading and writing—and at enhancing their knowledge of the cultures of French-speaking people. Prerequisite: FRN 102 or equivalent. 3 credits.

300. Advanced Conversation. Intensive practice in spoken French. Discussions on a wide range of topics related to French life and contemporary society. Prerequisite: FRN 202 or equivalent. 3 credits.

310. Advanced Grammar and Composition. Intensive practice in written French. Development of advanced writing skills through composition assignments based on contemporary French writing and issues. Prerequisite: FRN 202 or equivalent. 3 credits.

320. Business French. A study of the language of business and business practices of France and French-speaking countries. Prerequisite: FRN 202 or equivalent. 3 credits.

340. The Sounds of French. A course in phonetics and phonology designed to help students acquire standard pronounciation and intonation. Prerequisite: FRN 202 or equivalent. 3 credits.

350. French Culture and Civilization. An overview of French and Francophone cultures, history, and geography, with special focus on current issues. Taught in French. Prerequisite: FRN 202 or equivalent. 3 credits.

360. Cultures and Civilizations of Francophone Countries. This course explores the cultures and civilizations of Francophone countries outside of France, countries where French is one of the languages spoken and where it is the main vehicle of literature and culture. Prerequisite: FRN 202 or equivalent. 3 credits.

410. French Literature of the Middle Ages and Renaissance. A study of French literature from the 9th to the 16th centuries. Works from the medieval epic and courtly romance through Renaissance philosophical essays. Development of advanced communicative skills through literature will be promoted. Prerequisite: FRN 202 or equivalent. Writing process. 3 credits.

420. French Literature of the 17th and the 18th Centuries. A study of the spirit and principal authors of French Classicism (with a special emphasis on the theater of Corneille, Racine, and Molière) and the main ideological currents of the 18th century, with a special emphasis on the writers of the Enlightenment and their role in the transition from the old to the new regime (Voltaire, Montesquieu, Diderot, Rousseau, l'Abbé Prévost, Marivaux). Prerequisite: FRN 202. Writing process. 3 credits.

430. French Literature of 19th Century. A study of the main ideological and literary currents of the 19th century; Romanticism, Realism, and Symbolism. Emphasis on the works of Balzac, Flaubert, Zola, Maupassant, Baudelaire, and others. Prerequisite: FRN 202. Writing process. 3 credits.

440. French Literature of the 20th and 21st Centuries. A study of contemporary society as reflected in the literary evolution from Proust to the *Nouveau Roman* and *Théâtre de l'Absurde*. Such writers as Giraudoux, Anouilh, Malraux, Sartre, Camus, Ionesco and Becket will be studied. Prerequisite: FRN 202 or equivalent. Writing process. 3 credits.

450. *Modern Theater and Poetry of France.* A study of theater and poetry of the 19th and 20th centuries. Prerequisite: FRN 202 or equivalent. Writing process. 3 credits.

German Program

Degree Requirements:

Degree: Bachelor of Arts with a major in German.

Major: 27 credits in German above the intermediate level, including GMN 340 and at least 6 credits in 400 level writing process courses.

Minor: 18 credits in German above the elementary level. Courses in advanced conversation and composition as well as in culture are strongly recommended.

Our program in Berlin, Germany, allows students to complete 8 credits of intermediate or advanced German in one semester. Students also enroll in courses in German civilization taught in English. The program in Würzburg is an intensive, one-month program in the summer for 4 credits. Students must have completed the intermediate level as all instruction is in German.

Courses in German (GMN):

101, 102. Elementary German I, II. Introductory courses in German. Aimed at developing basic communicative proficiency in German. Also offers insights into German-speaking cultures. 3 credits.

201, 202. Intermediate German I, II. A continuation of the first-year courses. Aimed at building students' proficiency in all four language skills— listening, speaking, reading and writing—and at enhancing their knowledge of the cultures of German-speaking people. Prerequisite: GMN 102 or equivalent. 3 credits.

300. Advanced Conversation. Intensive practice in spoken German. Discussions on a wide range of topics related to German life and contemporary society. Prerequisite: GMN 202 or equivalent. 3 credits.

301. Advanced Grammar and Composition. Intensive practice in written German. Development of advanced writing skills through composition assignments based on contemporary German writing and issues. Prerequisite: GMN 202 or equivalent. 3 credits.

305. Summer Study in Germany, This four-week German language and culture course provides students possessing intermediate to advanced proficiency with an intensive linguistic and cultural immersion in an authentic German university environment. It combines daily classroom instruction with organized cultural activities and excursions. Language of instruction is German. Offered each summer. Prerequisite: GMN 202 or equivalent, permission of the instructor. Foreign studies. 4 credits.

310. Germany Today. Explores key issues in present-day German society. Prerequisite: GMN 202 or equivalent. 3 credits.

320. Business German. A study of the language of business and business practices of Germany and German-speaking countries. Prerequisite: GMN 202 or equivalent. 3 credits.

340. The Sounds of German. A course in the comparative phonetics and phonology of English and German designed to help students acquire standard pronunciation and intonation. Prerequisite: GMN 202 or equivalent. 3 credits.

350. German Culture and Civilization. An overview of German culture, history, and geography. Prerequisite: GMN 202 or equivalent. 3 credits.

410. *Readings in German.* Works of fiction and nonfiction selected to explore a particular topic or theme. Students may repeat this course for credit. Prerequisite: GMN 202 or equivalent. Writing process. 3 credits.

460. *Lyric Poetry.* A study of German song from *Minnesang* to *Kanaksprak*. Involves both texts and music as appropriate. Prerequisite: GMN 202 or equivalent. Writing process. 3 credits.

Italian Program

The department offers elementary Italian on campus and elementary and intermediate Italian through our program in Perugia, Italy. Students study at the Umbra Institute, earn 6 credits in the Italian language and 9 credits through courses in Italian civilization and culture taught in English.

Courses in Italian (ITA):

101, 102. Elementary Italian, I, II. Introductory courses in Italian. Seeks to develop basic communicative proficiency in Italian and provide insights into Italian-speaking cultures. 3 credits.

Sanskrit Program

Courses in Sanskrit (SKT):

101, 102. Elementary Sanksrit I. These courses introduce the student to the Sanskrit language, including the devanagari script, pronunciation, basic grammar, and vocabulary. They also offer insights into Indian culture. 3 credits.

Spanish Program

Degree Requirements:

Degree: Bachelor of Arts with a major in Spanish.

Major: 30 credits in Spanish above the intermediate level; at least 9 credits must be in 400-level writing process courses. At least 15 credits must be obtained at LVC. The 30 credits must include SPA 300, 310, 340, 350 and 360. Students may complete some of these core requirements in Spain.

Minor: 18 credits in Spanish above the elementary level. Courses in advanced conversation and composition as well as in culture are strongly recommended.

Our program in Spain is located in Valladolid, capital of the state of Castile-León. Students take courses at the advanced level in Spanish language, history, civilization, economics, and art at the Universitas Castellae, a private institute specializing in teaching university students from other countries. In Argentina, our program is offered in cooperation with the Fundación José Ortega y Gasset in Buenos Aires, which provides Spanish language courses at the beginning, intermediate, and advanced levels. Students may also enroll here in courses taught in English.

Courses in Spanish (SPA):

101, 102. Elementary Spanish I, II. Introductory courses in Spanish. Aimed at developing basic communicative proficiency in Spanish. Also offers insights into Hispanic cultures. 3 credits.

201, 202. Intermediate Spanish I, II. Begins with a review of material typically covered in a first-year Spanish course followed by further development of proficiency in all four language skills listening, speaking, reading and writing. Also aims to enhance students' knowledge of the cultures of Hispanic peoples. Prerequisite: SPA 102 or equivalent. 3 credits.

211. Spanish for Physical Therapy and Rehabilitation. An introduction to the basic conversational and medical/technical vocabulary needed to communicate with Spanish-speaking patients. [Cross-listed as PHY 710.] 2 credits.

300. Advanced Conversation. Intensive practice in spoken Spanish. Discussions on a wide range of topics related to Spanish and Latin American life and contemporary society. Prerequisite: SPA 202 or equivalent. 3 credits.

310. Advanced Grammar and Composition. Discussion of more complex grammatical structures. Intensive practice in written Spanish. Development of advanced writing skills through composition assignments based on contemporary issues. Prerequisite: SPA 202 or equivalent. Writing process. 3 credits.

320. Business Spanish. A study of the language of business and business practices. Prerequisite: SPA 202 or equivalent. 3 credits.

340. The Sounds of Spanish. A course in phonetics and phonology designed to help students acquire standard pronunciation and intonation. Prerequisite: SPA 202 or equivalent. 3 credits.

350. Spanish Culture and Civilization. An overview of Spanish culture, history and geography, with special focus on current issues. Prerequisite: SPA 202 or equivalent. 3 credits.

360. Latin-American Cultures and Civilizations. An overview of Latin American cultures, history and geography, with special focus on current issues. Prerequisite: SPA 202 or equivalent. Foreign studies. 3 credits.

370. Techniques of Translation and Interpretation. Studies methods of translation and interpretation. Oral and written texts will be used to work both from Spanish to English and English to Spanish. Prerequisite: SPA 202 or equivalent. 3 credits.

410. Spanish Literature of the Middle Ages and Renaissance. A study of the outstanding works of the period. Prerequisite: SPA 202 or equivalent. Writing process. 3 credits.

420. Spanish Literature of the Golden Age. A study of the major works of the period. Prerequisite: SPA 202 or equivalent. Writing process. 3 credits.

430. Spanish Literature of the 18th and 19th Centuries. Readings from the Enlightenment in Spain and an examination of the major works of romanticism and realism. Prerequisite: SPA 202 or equivalent. Writing process. 3 credits.

440. Spanish Literature of the 20th and 21st Centuries. A study of the literary movements of the century, starting with the Generation '98 and modernism. Prerequisite: SPA 202 or equivalent. Writing process. 3 credits.

450. Latin-American Literature of the 20th and 21st Centuries. A study of the important writers of the century, with emphasis on recent developments. Prerequisite: SPA 202 or equivalent. Writing process. 3 credits.

460. The Age of Discovery. An examination of native cultures before 1492, the arrival of Spanish explorers and their effect on these native populations. Foreign Studies. Pre-requisite: SPA 202 or equivalent. Writing process. 3 credits.

Faculty

Jean-Marc Braem, associate professor of French.

Ph.D., Princeton University.

Braem teaches courses on all levels of Francophone language, culture, and civilization. He has written on censorship in French literature and the instructional use of films in French.

Rick M. Chamberlin, assistant professor of German and French.

Ph.D., University of Michigan.

Chamberlin teaches courses at all levels in both French and German. His areas of research are German and French medieval literature, as well as the relations between German writers and the wider culture in the 20th century. He also directs our summer study program in Würzburg, Germany.

Carmen García-Armero, assistant professor of Spanish.

Ph.D., University of Virginia.

García-Armero teaches courses in Spanish language, culture, civilization, and literature. Her research interests include 20th- and 21st-century Spanish fiction, the relationship between literature and the visual arts, film, and gender studies.

Ivette Guzmán Zavala, assistant professor of Spanish.

Ph.D., Rutgers University.

Guzmán Zavala, a native of Puerto Rico, teaches Spanish language courses at all levels. She pursues research interests in Latin America and the Hispanic Caribbean. Her conference presentations and publications chiefly involve the representation of childhood and motherhood in literary texts and the visual arts. She is painter as well as a literary scholar and her works have been featured in solo and group exhibitions.

Gabriela McEvoy, assistant professor of Spanish.

Ph.D., University of California at San Diego.

McEvoy teaches Spanish courses at all levels. Her research involves Latin American ethnic studies, most particularly discourse in the Peruvian-Irish community. She has

presented her work at several conferences and has published her writing on fiction by immigrants and exiles to Latin America.

Jörg Meindl, assistant professor of German.

Ph.D., University of Kansas

Meindl teaches courses in German at all levels. His research agenda includes the fields of applied linguistics, second language acquisition and cultural studies. His most recent project investigated communication strategies in the sermons of an Old order Amish community.

James W. Scott, professor emeritus of German. Chairperson.

Ph.D., Princeton University.

Scott's scholarly presentations have ranged from Kafka's short fiction to cabaret in the GDR and communicative testing. At present he is editing Ebernand von Erfurt's Kaiser und Kaiserin and preparing a new translation of Iwein, an Arthurian epic by Hartmann von Aue.

Beth Wrenn Underwood, lecturer in Italian.

M.A., Middlebury College

Underwood teaches Italian at the elementary level and assists the director of study abroad.

Theresa Bowley, adjunct instructor in French.

M.A., Middlebury College.

Bowley teaches French language at the elementary and intermediate level.

Barbara Nissman-Cohen, adjunct instructor in French.

M.A., Montclair State College.

Nissman-Cohen teaches French language at the elementary level.

José Vargas-Vila, lecturer in Spanish.

M.A. University of Miami.

Vargas-Vila teaches Spanish language at all levels. He has written on Latin American politics and is an enthusiastic sponsor of educational travel.

Wiliam Zapata-Morales, adjunct instructor in Spanish.

M.A., Shippensburg University.

Zapata-Morales teaches Spanish at the elementary level.

DEPARTMENT OF MATHEMATICAL SCIENCES

The Lebanon Valley College Department of Mathematical Sciences has long offered a rigorous mathematics program within the context of a liberal arts education. The increasing national need for mathematically prepared individuals makes our program even more attractive today. Actuaries, computer programmers, mathematics and computer science teachers, operations research analysts, and statisticians are in high and continuing demand. In addition, the mental discipline and problem solving abilities developed in the study of mathematics are excellent preparation for numerous and varied areas of work and study.

The department was cited in the Mathematical Association of America's 1995 publication, Models That Work, for its exceptional program and for its service to students. It offers majors in actuarial science, computer science and mathematics; secondary teaching certification in mathematics; and minors in mathematics and computer science.

Departmental graduates have earned doctorates in economics, physics, statistics, and computer science as well as mathematics. Other graduates have completed law school. Many graduates have earned the designation of Fellow of the Society of Actuaries or of the Casualty Actuarial Society.

Mathematical Sciences Department majors are active in student government, athletics, musical organizations, and other activities. There is an active Math Club that annually sponsors a Quiz Bowl for local high school students and a Math Olympics for fifth graders.

The Mathematical Science Department also directs the computer engineering track in the 3+2 Engineering Program. For details, see Cooperative Programs on page 29.

Mathematics Program

The Mathematics major is the cornerstone of the program in the Department of Mathematical Sciences. Each faculty member in the department has a doctorate in some area of mathematics. Operations research analyst, manager business analysis, computer analyst, and secondary school teacher are job descriptions of some recent graduates. Other graduates have chosen to use mathematics as preparation for graduate school in areas such as economics, management, operations research, and statistics, as well as mathematics.

Degree Requirements:

Degree: Bachelor of Science with a major in mathematics.

Major: MAS 099, MAS 111, 112, 113, 114, 202, 222, 251, 261, plus five MAS courses numbered 200 or above, including at most one of MAS 266, 270 or ASC 385; at least four of MAS 311, 322, 325, 335, 371, 372, 390; and at least one of MAS 311 or 322. A 400 level ASC course may substitute for 335 and ASC 385 may substitute for MAS 266 or MAS 270 (37 credits).

Mathematics majors are advised to take at least one computer science course or have equivalent experience.

Minor: MAS 161 and 162 or MAS 111 and 112; MAS 222, and either MAS 251 or 202; three courses from CSC 131 or MAS courses numbered 200 or higher. One ASC course may be substituted for one of the elective 200 or higher level math courses. (21 credits)

Secondary Teacher Certification: Students seeking secondary certification in mathematics must complete: a mathematics major including MAS 270 or MAS 372; MAS 322, 325; and CSC 131. Certification candidates must also complete 33 credits in additional required coursework. See the Education Department section on pages 84–85 for additional information.

Courses in Mathematics (MAS):

099. Presentation Attendance. The aim of this course is exposure to mathematics beyond the classroom curriculum. The course requirement is attendance at a minimum of six formal presentations on mathematical topics give at conferences, colloquia, or symposia at a minimum of two separate events (that is, a conference or event). Presentations should have a title and abstract and may be given by faculty or students; poster sessions do not count. 0 credits.

100. Concepts of Mathematics. A study of a variety of topics in mathematics. Many introduce modern mathematics and most do not appear in the secondary school curriculum. 3 credits.

102. Pre-Calculus. A review of precalculus mathematics including algebra and trigonometry. 3 credits. A student may not receive credit for this course after completing MAS 111, 161, or the equivalent.

111, 112. Analysis I, II. A calculus sequence for department majors and other students desiring a rigorous introduction to elementary calculus. Prerequisite: placement testing or MAS 102; MAS 111 is a prerequisite for MAS 112. Corequisites: MAS 113, 114. 4 credits per semester. A student may not receive credit for both MAS 112 and MAS 162.

113, 114. Introduction to Mathematical Thinking I, II. A sampling of mathematical subjects that typically do not involve calculus. Writing is the primary emphasis. Topics may include prime numbers, rational and irrational numbers, logic, and cardinality. Corequisite: MAS 111, 112. 1 credit per semester.

150. *Finite Mathematics.* Introduction to mathematical techniques used in quantitative analysis in business and economics. Topics include sets, linear relations, matrices, linear programming, probability and interest. 3 credits.

161, 162. Calculus I, II. A calculus sequence covering functions, limits, differentiation, integration and applications. Prerequisite: placement testing or MAS 102. MAS 161 or MAS 111 is a prerequisite for MAS 162. 3 credits per semester. A student may not receive credit for both MAS 112 and MAS 162.

170. Elementary Statistics. An introduction to elementary descriptive and inferential statistics with emphasis on conceptual understanding. 3 credits. A student may not receive credit for MAS 170 after completing MAS 372. A student may not receive credit for both MAS 170 and MAS 270.

202. Foundations of Mathematics. Introduction to logic, set theory, and proof techniques. Prerequisites: MAS 251 or ASC 281. 3 credits.

222. Linear Algebra. An introduction to linear algebra including systems of equations, vectors spaces and linear transformations. Prerequisite: MAS 112 or MAS 261. 3 credits.

251. *Discrete Mathematics.* Introduction to mathematical ideas used in computing and information sciences: logic, sets and sequences, matrices, combinatorics, induction, relations and finite graphs. Prerequisites: MAS 112 or MAS 162. 3 credits.

261. Calculus III. Multivariate calculus including partial differentiation, multiple integration, vector fields and vector functions. Prerequisites: MAS 112 or MAS 162. 3 credits.

266. Differential Equations. An introduction to ordinary differential equations. Pre-requisites: MAS 162 or 112. 3 credits.

270. *Intermediate Statistics.* A more advanced version of MAS 170 intended for students with some calculus background. 3 credits. A student may not receive credit for both MAS 170 and MAS 270.

311. Real Analysis. Convergent and divergent series, limits, continuity, differentiability and integrability; Fourier series. Prerequisites: MAS 202, 222, 251. 3 credits.

322. Abstract Algebra. Introduction to algebraic structures including groups, rings and fields. Prerequisites: MAS 202, 222, 251. 3 credits.

325. Geometry. Axiomatic development of absolute, Euclidean and non-Euclidean geometries. Prerequisites: MAS 202, 222, 251. 3 credits.

335. Operations Research. Introduction to some operations research techniques including linear programming, queuing theory, project scheduling, simulation and decision analysis. Prerequisites: MAS 202 or 222 or 251. 3 credits.

360. Teaching of Mathematics in Secondary Schools. A course to ensure prospective mathematics teachers at LVC are knowledgeable and competent in the aspects of teaching that pertain specifically to the teaching of mathematics in Pennsylvania schools, as defined in the PDE Standards. Study of educational theories, research, and practices in the context of actual use of the same. Taught as a lab course. Prerequisites: declared secondary education mathematics major and junior standing; EDU 110. 3 credits.

371. Mathematical Probability. A mathematical introduction to probability, discrete and continuous random variables, and sampling. Prerequisites: at least two of MAS 202, 251, and ASC 281. 3 credits.

372. Mathematical Statistics. An introduction to the mathematical foundations of statistics including sampling distributions, estimation, hypothesis testing, linear models and multivariate distributions. Prerequisites: MAS 371. 3 credits.

Actuarial Science Program

Actuaries are business professionals who use expertise in mathematics, economics, finance and management to define, analyze and solve financial and social problems. Actuaries are employed by insurance companies, consulting firms, pension/benefit con-

sulting firms, large corporations, and federal and state government agencies. Actuarial credentials, which are earned after obtaining a bachelor's degree, result from completing the rigorous education and examination program administered by either the Casualty Actuarial Society or the Society of Actuaries.

The Actuarial Science Program at Lebanon Valley College was established in the 1960s and is coordinated by Professor Hearsey, who is an Associate of the Society of Actuaries. With over 120 graduates working in the profession, including 62 fellows and 36 associates, Lebanon Valley is recognized as having one of the leading undergraduate actuarial education programs in the U.S.

The College's actuarial curriculum is designed to help actuarial students prepare for the curricula of the professional actuarial societies including all 2005 and 2006 revisions. The program introduces students to material on the first four examinations in the Society of Actuaries and Casualty Actuarial Society examination programs.

The rigorous standards of the program, including the required passing of at least one actuarial examination, has resulted in a nearly 100 percent placement record of Lebanon Valley College actuarial science graduates in professional actuarial positions.

Degree Requirements:

Degree: Bachelor of Science degree with a major in actuarial science.

Major: ASC 281, 385, and two from 386, 472, 481, 482; CSC 131; MAS 111, 112, 113, 114, 261, 371, 372; ECN 101, 102; ACT 161 (49 credits). The Course P/Part 1 or Course FM/Part 2 examination of the Society of Actuaries/Casualty Actuarial Society must be passed before senior standing is reached.

Courses in Actuarial Science (ASC):

281. *Probability for Risk Management.* An introduction to risk management in property/casualty and life insurance with emphasis on probability concepts. Prerequisite: MAS 112. 3 credits.

385. Mathematics of Finance I. Measurement of interest, time value of money, annuities, amortization and sinking funds, bonds, capitalized cost, net present value, yield rates, yield curves, duration, immunization; derivative products including calls, puts, forwards, and swaps. Prerequisite: MAS 162 or 112. 3 credits.

386. *Mathematics of Finance II.* Parity, binominal pricing, Black-Scholes pricing, hedging, exotic options, and interest rate models. Prerequisite: ASC 385. Corequisite: MAS 371. 3 credits.

471. Regression and Time Series Analysis. An introduction to regression and time series models with emphasis on economic applications. Prerequisite: MAS 372. 3 credits.

472. *Loss Distributions and Credibility Theory.* An introduction to loss distributions and credibility theory with emphasis on actuarial applications. Corequisite: MAS 372. 3 credits.

481. Actuarial Mathematics I. Survival distributions, life insurance, life annuities, benefit premiums and reserves. Prerequisite: ASC 385. Corequisite: MAS 371. 3 credits.

482. Actuarial Mathematics II. Multiple life and decrement models, expenses, individual and collective risk models, compound distributions, including applications. Prerequisites: ASC 385, 481. 3 credits.

Computer Science Program

Computer science is the study of what can be done with machines. This discipline is part mathematics, part engineering, part philosophy, part linguistics, and part experimental science (without all the mess).

Our computer science curriculum is distinguished primarily by two characteristics. The first is our emphasis on computer programming. The first six CS courses are primarily about programming, and programming plays an important role in most of the advanced courses. This emphasis develops strong analysis and problem-solving skills.

The second characteristic of the computer science major is its decidedly mathematical nature. Our students take 19 credits of mathematics (seven courses), more than is typical of undergraduate CS programs. This math foundation gives our students an analytical background that applies broadly in their CS coursework, helping them become better programmers and analysts.

Degree Requirements:

Degree: Bachelor of Science with a major in computer science.

Major: CSC 131, 132, 231, 232, 331, 332; two of 441, 442, 448, 451, 452, 481, 482; either 400 or 500; MAS 111, 112, 113, 114, 222, 251, plus one additional MAS course numbered 200 or higher; one of ENG 210, ENG 216, BUS 285 (49 credits).

Minor: CSC 131, 132, 231, 232, and one CSC course numbered 300 or above; MAS 111 or 161, and MAS 112 or 162 or 270 (21 credits).

Courses in Computer Science (CSC):

115. Programming for Web Applications. This course introduces students to client side and server side web programming with databases. 3 credits.

131. Introduction to Programming (with Java). Foundational aspects of computer programming. Algorithms and data; control structures; the design of small programs. Class and object basics. Uses the Java programming language. 3 credits.

132. Computer Organization and Programming. Introduces the design and organization of the major components of a modern computer: CPUs, memory, storage, and other related hardware. Continues the study of programming started in CSC 131 via programming projects related to the study of computer architecture. Prerequisite: CSC 131 or permission. 3 credits.

216. Concepts of Networking and Database. This course has three distinct segments: 1) principles of computer networks and the Internet, 2) database design concepts, and 3) network database applications. Hands-on. Prerequisite: CSC 122 or 144 or permission of the instructor. 3 credits.

231. Program Design I: C++ and Data Structures. Begins the study of large-scale software systems. Introduces the C++ programming language and fundamental data structures like vectors, lists, and trees. MAS 161 and CSC 132, or permission. 3 credits.

232. Program Design II: OOP and Patterns. A continuation of CSC 231. Applications of data structures, object-oriented programming, design patterns, and other techniques to the design and implementation of large software systems. Prerequisite: CSC 231. 3 credits.

331. Software Design I. A survey of modern techniques for designing complex software systems. Investigates both programming techniques and processes. Includes substantial programming projects that continue in CSC 332. Prerequisite: CSC 232. 3 credits.

332. Software Design II. A continuation of CSC 331. Must be taken in the semester immediately following CSC 331. Prerequisite: CSC 331. 3 credits.

441. Operating Systems. Theory and practice of modern operating systems. Topics include memory management, file systems, scheduling, concurrency, distributed processes, and security. Prerequisite: CSC 232 and MAS 251. 3 credits.

442. Networks. Network design and implementation. Topics include layered network design, types of hardware, low-level protocols, packets, frames, routing, security, and so on. Prerequisite: CSC 232 and MAS 251. 3 credits.

448. Databases. The theory, structure and implementation, and application of modern database systems. Prerequisite: CSC 232. 3 credits.

451. Theory of Programming Languages. Examines the design of computer programming languages and the tools that process them. Includes an examination of several current languages, and an introduction to the design and implementation of compilers. Prerequisite: CSC 232 and MAS 251. 3 credits.

452. *Artificial Intelligence.* An introduction to the field of Al. Topics include expert systems, goal-seeking algorithms, neural networks, genetic algorithms, computer vision, language recognition. Prerequisite: CSC 232 and MAS 251. 3 credits.

*481, 482. Advanced Topics in Computer Science I, II. To*pics to be selected from current areas of interest and research in Computer Science. Prerequisites: CSC 232, MAS 251. 3 credits.

Faculty

J. Patrick Brewer, associate professor of mathematical sciences.

Ph.D., University of Oregon.

Brewer teaches mathematics and actuarial science. His graduate degree was earned in the area of algebra, and he is broadening his areas of expertise to include statistics and actuarial science. He is advisor for the Math Club. Professor Brewer advises mathematics and actuarial science majors.

Leigh Cobbs, assistant professor of mathematical sciences.

Ph.D., Rutgers University.

Cobbs is a 2009 addition to the department. She completed her graduate work at Rutgers in geometric group theory. At LVC, she plans to expand her interests into other areas applicable to undergraduates including actuarial science.

Michael D. Fry, professor of mathematical sciences.

Ph.D., University of Illinois.

An avid practitioner of computer science and an accomplished mathematician. Trained as an algebraist, he has become a computer scientist as well with special interests in graphics, fractals, and applications of group theory. Professor Fry advises computer science majors.

Bryan V. Hearsey, professor of mathematical sciences. Chairperson. Coordinator, Actuarial Science Program.

Ph.D., Washington State University.

Hearsey is an Associate of the Society of Actuaries (ASA) and an active member of the academic actuarial community. He serves as the Society of Actuaries liaison representative to the Mathematical Association of America and is a member of the Joint CAS/SoA Validation by Educational Experience Administration Committee. Although his original mathematics interest was topology, his primary interests are now actuarial mathematics and finance. He advises actuarial science majors.

David W. Lyons, professor of mathematical sciences.

Ph.D., University of North Carolina at Chapel Hill.

Lyons has broad mathematical interests in the areas of geometry, topology, algebra, and computer visualization. His current research is in mathematical physics in the area of quantum information theory. His pedagogical scholarship centers around the use of visualization, particularly with animation, for teaching mathematical concepts. Away from the office, he is advisor and master instructor for the Taekwondo Club. He advises math majors.

Barry R. Smith, assistant professor of mathematical sciences.

Ph.D., University of California at San Diego.

Smith completed his Ph.D. in 2007 and had a three-year post-doc at the University of California, Irvine. He joins the LVC faculty in the fall of 2010.

Kenneth F. Yarnall, associate professor of mathematical sciences. Coordinator, Computer Science Program.

Ph.D., University of South Carolina.

Yarnall has interests ranging from pure mathematics to computer science to history and philosophy of science. Trained as an analyst, he teaches both mathematics and computer science. He advises computer science majors. He is the advisor for the Association for Computing Machinery student chapter, and he advises computer science majors.

MILITARY SCIENCE PROGRAM ROTC

The Military Science Program/ROTC adds another dimension to a Lebanon Valley College liberal arts education with courses that focus on helping students to become leaders and which develop a students' ability to manage, motivate, and foster teamwork. ROTC cadets cannot be called to active duty until they graduate and have been commissioned.

Students can participate in the military science courses (the ROTC Basic Course) during their freshman and sophomore years without formally enrolling in ROTC and with no future military obligation or commitment required. Courses during these years orient students to the various roles of Army officers and begin to prepare students to become officers. These courses focus on the development of written and oral communication skills, leadership skills, and self-confidence.

Individuals who elect to continue in the program during the junior and senior years (the ROTC Advanced Course) will receive a commission as a second lieutenant in the U.S. Army, the U.S. Army Reserve, or the Army National Guard upon graduation. They will then serve either four years of active duty in the Army, or they may opt to serve parttime in the Army Reserve or National Guard if they choose to pursue a civilian career. Students can enroll in ROTC as late as the end of their sophomore year and still receive two years of ROTC scholarship.

Army ROTC participation generally involves taking one elective class per semester. Options are available for those individuals who encounter scheduling conflicts or who desire to begin participation after their freshman year.

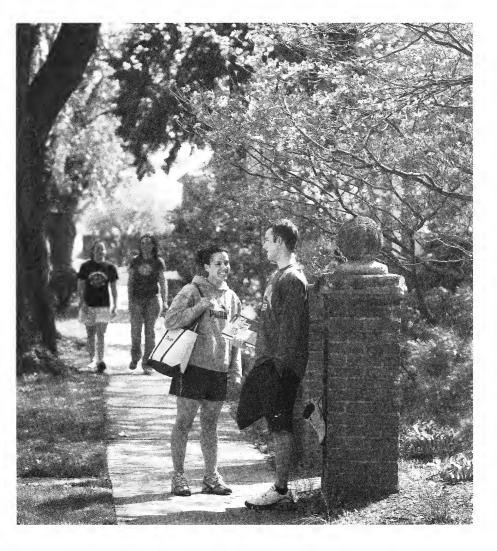
Contact the Military Science Department, 717-245-1221 or 888-356-3942, or go to **www.goarmy.com/rotc/high_school_students.jsp** for further information. At this time, the course instruction for Lebanon Valley College students is held at Millersville University.

Program participants may take part in various enrichment activities during the academic year, which include rappelling, rifle qualification, leadership exercises, land navigation, orientation trips, and formal social functions. Program participants may also apply for special training courses during the summer, such as airborne school, air assault schools, and cadet troop leader training.

Scholarships: Army ROTC offers four-, three-, and two- year scholarships, awarded to those with a high school GPA of at least a 2.50 and a minimum of 920 on the SAT (math/verbal) or 19 on the ACT. The scholarship pays full tuition and fees each year. In addition, the scholarship offers a stipend of \$300–500 a month, depending on year in school, plus \$1,200 a year for books. All scholarship recipients remain eligible for financial aid.

Corresponding Studies Program: Students may spend a semester in an off-campus study program in either the United States or abroad, while participating in either the Army ROTC Basic Course or Advanced Course, and still receive the same course credit, scholarships, and benefits.

Leader Development and Assessment Course (LDAC): This practicum consists of a five-week summer training program at Fort Lewis, Wash. LDAC stresses the application of military skills to rapidly changing situations. Participants are evaluated on their ability to make sound decisions, to direct group efforts toward the accomplishment of common goals, and to meet the mental and physical challenges presented to them. Completion of LOAC is required prior to commissioning and is normally attended during the summer between the junior and senior years. Participants receive room, board, travel expenses, medical care, and pay.



DEPARTMENT OF MUSIC

Students in the Department of Music major in one of four areas: music, music business, music education, or music recording technology. Each student in the B.A. (MUS or MBS), B.M. (MRT), or B.S. (MED) programs is required to take a core of courses in music theory and music history. Each student also completes additional course work particular to his or her area of interest.

Music Program

Music majors will exhibit proficiency at the piano and in voice. To achieve these proficiencies, students take MSC 510, 511, 512, and 513, and/or 520. Precise requirements for the proficiencies and the recital attendance requirement are found in the Department of Music Student Handbook, and in the courses-in-music section of this catalog. Music majors (except music business students) will be in at least one major ensemble (identified as Marching Band, Symphonic Band, College Choir, Concert Choir, or Symphony Orchestra) each fall and spring semester. All students may earn up to 12 credits for ensemble participation. They will enroll in private study on their principal instrument/voice during each fall and spring semester.

Students registered for private instruction in the department are not permitted to study in that instructional area on a private basis with another instructor, on or off campus, at the same time.

Degree Requirements:

The Bachelor of Arts in music (B.A.) is designed for those students preparing for a career in music with a strong liberal arts background. Students in the jazz studies concentration will take 530 private applied each semester. They will also take at least three credits of 530 jazz studies starting in the junior year. The theory or composition concentration students will take 530 private applied each semester. Theory concentration students will take at least one 530 individual instruction theory credit in the senior year. Composition concentration students will take at least four credits of 530 individual instruction composition starting no later than the junior year. Concentrations identified in the Department of Music Student Handbook include: piano, organ, voice, instrumental, sacred music, jazz studies, theory or composition.

Degree: Bachelor of Arts in music (MUS).

Majors: Core courses in three of the music degree programs are: MSC 099, 115, 116, 117, 118, 215, 216, 217, 241, 242, and 246. MSC 530 for all degree candidates. In addition, music majors will be in either MSC 601, 602, 603, 604, or 606 each semester, exceptions noted previously.

Music (B.A.): Core courses plus: Piano concentration: MSC 306, 316, 406 and 600; Voice concentration: MSC 233, 326 and 327; Organ concentration: MSC 316, 351, and 352; Instrumental concentration: MSC 345, 403, 405 and 416; Sacred Music concentration: MSC 347, 351 or MED 334, and 422; Jazz Studies concentration: MSC 201, 218, 416 and 530 jazz studies (at least three semesters); Theory concentration: MSC 216, 315, 329, 416 and 530 individual instruction theory (at least the final semester); Composition concentration MSC 216, 315, 329, 416, and 530 individual instruction composition (at least four semesters).

Minor: MSC 099 (two semesters), 101, and three music literature courses from among the following: 100, 200, 201, 202, 241, 242, or 343. Minors also take MSC 530 for four semesters and must participate in any music ensemble for four semesters.

Student Recitals

Student recitals are of inestimable value to all music students in acquainting them with a wide range of significant music literature, and in developing musical taste and discrimination. Performing in a recital provides the experience of appearing before an audience, and helps to develop self reliance and confident stage demeanor. Students at all levels of performance ability appear on regularly scheduled student recitals depending on their performance readiness, and in consultation with the private teacher.

Courses in Music (MSC):

099. *Recital Attendance.* Designed for music majors and minors and graded on a satisfactory/unsatisfactory basis. Music core course. 0 credits.

100. Introduction to Music. For the non-music major, a survey of Western music designed to increase the individual's musical perception. 3 credits.

101. Fundamentals of Music. For music minors and non-music majors, an introduction to the rudiments of music: notation, key signatures, theory, aural theory and so forth. 3 credits.

110. Class Piano for Beginners. 1 credit.

111. Class Guitar for Beginners. Student provides his or her own instrument. 1 credit.

115. Music Theory I. A study of the rudiments of music and their notation. Harmonization of melodies and basses with fundamental triads. Aspects of form and analysis. Music core course. Prerequisite: audition for admission or permission from instructor. 2 credits.

116. Music Theory II. A study of diatonic tonal harmony, including all triads and seventh chords, nonharmonic material and elementary modulation. Aspects of form and analysis. Music core course. Prerequisite: MSC 115 or permission of the instructor. 2 credits.

117. Aural Theory I. The singing and aural recognition of intervals, scales, triads and simple harmonic progressions. Music core course. Prerequisite: audition for admission or permission from instructor. 2 credits.

118. Aural Theory II. A continuation of MSC 117, emphasizing clef reading, modality, modulation and more complicated rhythmic devices and harmonic patterns. Music core course. Prerequisite: MSC 117 or permission of the instructor. 2 credits.

200. Topics in Music. Designed primarily for the non-music major, the course will focus on genre and period studies. 3 credits.

201. *Music of the United States.* A historical survey of U.S. music emphasizing stylistic developments and illustrative musical examples from colonial times to the present. Includes American musical theater, jazz, folk and popular styles. Writing process. 3 credits.

202. World Musics. A general introduction to musical styles, compositional practices, and aesthetics of specific people groups within the Americas, Asia, and Africa. It discusses traditional, popular, and art music styles, and presents music intimately tied to value systems and social practice. Foreign Studies. 3 credits.

215. *Music Theory III.* A study of chromatic tonal harmony, including secondary dominants, augmented sixth chords, tertian extensions, altered chords and advanced modulation. Aspects of form and analysis. Music core course. Prerequisite: MSC 116 or permission of the instructor. 2 credits.

216. *Music Theory IV.* A study of 20th-century compositional techniques, including modal and whole-tone materials, quartal harmony, polychords, atonality, serialism and various rhythmic and metric procedures. Aspects of form and analysis. Prerequisite: MSC 215 or permission of the instructor. 2 credits.

217. Aural Theory III. A continuation of MSC 118, emphasizing chromatic materials and more complex modulations, chord types, rhythms and meters. Music core course. Prerequisite: MSC 118 or permission of the instructor. 2 credits.

218. Jazz Theory. A study of jazz theory, including notation, extended chords, improvision and practice. Prerequisites: MSC 115, 116, and 215. 2 credits.

233. Diction. An introduction to the pronunciation of singer's English, German, French, Italian and Latin, utilizing the International Phonetic Alphabet. Required of voice concentration majors, the course is open to other students with permission of the instructor. 2 credits.

241. History and Literature of Music I. A survey course in the history of Western music (in the context of world musics of various cultures), with emphasis on stylistic developments and illustrative musical examples, from early music through the Baroque era. Music core course. 3 credits.

242. History and Literature of Music II. A survey course in the history of Western music (in the context of world musics of various cultures), with emphasis on stylistic developments and illustrative musical examples, from the classical period to the present. Music core course. 3 credits.

246. Principles of Conducting. Principles of conducting and baton technique. Students conduct ensembles derived from class personnel. Music core course. 2 credits.

306. Piano Literature. A survey of the development of the piano and its literature with emphasis on piano methods books and related materials. 2 credits.

315. Counterpoint. Introductory work in strict counterpoint through three- and four-part work in all the species. 2 credits.

316. Keyboard Harmony. Score reading and the realization of figured bass at the keyboard, transposition and improvisation. The successful completion of a piano proficiency jury is required for admission to the course. 2 credits.

326. Vocal Literature. A survey of solo vocal literature with emphasis on teaching repertoire. Extensive listening is required. Students may have opportunities to perform the works studied. 2 credits.

327. Vocal Pedagogy. This course prepares the advanced voice student to teach private lessons at the secondary school level. Students are expected to develop vocal exercise procedures, become familiar with suitable teaching repertoire and apply teaching procedures in a laboratory situation. Selected writings in vocal pedagogy and voice therapy will be studied. 2 credits.

328. Form and Analysis I. A study through analysis and listening of simple and compound forms, variations, contrapuntal forms, rondo and sonata forms. Emphasis is placed primarily upon structural content. The course provides experience and skill in both aural and visual analysis. Music core course. Prerequisite: MSC 215 or permission of instructor. 2 credits. (until fall 2010.)

329. Form and Analysis II. An advanced course in analysis, focusing on the methodologies and concepts of music design originated by the Austrian theorist Heinrich Schenker. Emphasis is placed on the appropriate use of symbols and terminology in the reading and construction of graphs of complete tonal compositions. Prerequisite: MSC 328 or permission of instructor. 2 credits.

343. 20th-Century Music. An advanced course in music history. Beginning with late-19th-century musical developments, the course continues chronologically through the 20th century. Designed for music majors and interested non-majors who read music well. Prerequisite: MSC 242 or permission of the instructor. Writing process. 3 credits.

345. Advanced Instrumental Conducting. Emphasis on practical work with instrumental groups. Rehearsal techniques are applied through individual experience. Prerequisite: MSC 246 or permission of the instructor. 2 credits.

347. Advanced Choral Conducting. Emphasis is on advanced technique with and without baton, score preparation, interpretation and pedagogy relating to choral organizations. Prerequisite: MSC 246 or permission of the instructor. 2 credits.

351. Organ Literature. A historical survey of representative organ literature from earliest times to the present day. 2 credits.

352. Organ Pedagogy. Designed with a practical focus, this course surveys various methods of organ teaching. Laboratory teaching and selection of appropriate technical materials for all levels are included. 2 credits.

401. *Instrument Repair.* A laboratory course in diagnosing and making minor repair of band and orchestral instruments. 2 credits.

403. *Instrumental Pedagogy.* A survey of teaching materials that relate to the student's performance area. Students may be expected to apply teaching procedures in a laboratory situation. 2 credits.

405. Instrumental Literature. A survey of literature (solo and chamber) that relate to the student's performance area. 2 credits.

406. Piano Pedagogy. A practical course that explores fundamental principles necessary to be an effective piano teacher. Subjects include practice techniques, memorization and the selection of appropriate technical materials for both beginners and advanced students. Laboratory teaching may be required of the student. 2 credits.

Lebanon Valley College

416. Orchestration. A study of instrumentation and the devices and techniques for scoring transcriptions, arrangements and solos for orchestra and band, with special emphasis on practical scoring for mixed ensembles as they occur in public schools. Laboratory analysis and performance. Scoring of original works. 2 credits.

422. Church Music Methods and Administration. A course that acquaints students with the church music program. Includes the development of a choir program, methods and techniques of rehearsal, budget preparation, and committee and pastoral relationships. 3 credits.

510. Class Piano Instruction I. First course in the sequence designed for music majors with minimal piano skills in preparing for piano proficiency. 1 credit.

511. Class Piano Instruction II. Second course in the sequence designed for music majors in preparing for piano proficiency. Prerequisite: MSC 510 with a minimum of "C-" or better, or permission of instructor. 1 credit.

512. Class Piano Instruction III. Third course in the sequence designed for music majors in preparing for piano proficiency. Prerequisite: MSC 511 with a minimum of "C-" or better, or permission of instructor. 1 credit.

513. Class Piano Instruction IV. Fourth course in the sequence designed for music majors in preparing for piano proficiency. Prerequisite: MSC 512 with a minimum of "C-" or better, or permission of instructor. 1 credit.

520. Class Voice Instruction. Designed for music majors with minimal vocal experience. Preparation for department voice proficiency requirements. 1 credit.

530. Individual Instruction. (Voice, Piano, Orchestral and Band Instruments; Jazz studies; theory; composition. Additional fees apply). Enrollment restricted to music majors and minors or by permission of the instructor. 1 credit.

540. Individual Instruction. (Voice, Piano, Orchestral and Band Instruments; additional fees apply). Enrollment restricted to music majors. 2 credits.

600. Accompanying. Under the guidance of a piano instructor the piano concentration student prepares accompaniments for recital performance. One credit per semester is given for one solo recital or two half recitals. A maximum of two credits, usually distributed over the last three years, may be earned. 1-2 credit(s).

Music Ensembles

601. Marching Band. The principal band experience during the fall semester open to all students based on prior experience. Performs for home football games and selected invitationals. Practical lab experience for music education majors.. Satisfies large ensemble requirement. 1 credit.

602. Symphonic Band. The principal band experience during the spring semester, open to all students by audition. The Symphonic Band performs original literature and arrangements of standard repertoire. Satisfies large ensemble requirement. 1 credit.

603. Symphony Orchestra. Various symphonic literature is studied and performed. In the second semester the orchestra accompanies soloists in a concerto-aria concert and

on occasion combines with choral organizations for the performance of a major work. Open to all students by audition. Satisfies large ensemble requirement. 1 credit.

604. Concert Choir. Open to all students by audition, the Concert Choir performs all types of choral literature. In addition to local concerts, the Choir tours annually. Satisfies large ensemble requirement. 1 credit.

605. Chamber Choir. Open to all students by audition, the Chamber Choir performs chamber vocal literature from madrigals to vocal jazz. 1/2 credit.

606. College Choir. Open to all students. The College Choir performs all types of choral literature. Satisfies large ensemble requirement. 1 credit.

Woodwind Ensembles

610. Clarinet Choir. 1/2 credit.
611. Flute Ensemble. 1/2 credit.
612. Saxophone Ensemble. 1/2 credit.
613. Woodwind Quintet. 1/2 credit.

Brass Ensembles.

- 614. Low Brass Ensemble. 1/2 credit.
- 615. Trumpet Ensemble. 1/2 credit
- 616. Percussion Ensemble. 1/2 credit.
- 620. String Ensemble. 1/2 credit.

Jazz Ensembles.

625. Jazz Band. 1/2 credit.

626. Small Jazz Ensemble. 1/2 credit.

Chamber Ensembles. 630. Gnitar Ensemble. 1/2 credit. 635. Handbell Choir. 1/2 credit.

Music Business Program

The Bachelor of Arts: emphasis in music business (B.A.) is a liberal arts-based music business curriculum that builds on the strengths of current programs in business and music.

Degree Requirements: Degree: Bachelor of Arts: emphasis in music business (MBS).

Music Business (B.A.): MSC 099 (8 semesters); 115, 116, 117, 118, 201, 241, 242, 510, 511, 512, 513, 520 (1 semester, or voice proficiency), 530 (8 semesters), any music ensemble (8 semesters); MBS 179 (4 semesters), 371, 372, 373, 400; ACT 161, 162; BUS 230, 285, 371, 380; and ECN 101 or 102.

Courses in Music Business (MBS):

179. *Music Business Colloquium.* A first-year through senior-level course for all music business majors. The class is a forum for speakers from the industry and returning summer MBS interns to discuss current events in the music industry. The class is the cata-

lyst for the design and facilitation of the annual music industry conference (LVC-MIC) held each fall. Prerequisites: music business major or permission. Icredit.

371. Introduction to Music Business. This course examines how the music business operates, delving into a wide range of issues and areas, such as publishing, record labels, retail, distribution, market research, agents and managers, and current issues in the industry. Writing Process. 3 credits.

372. Music Copyright, Contracts, and Cash. An in-depth examination of publishing and recording contracts, music copyright law, and music licensing. Prerequisite: MBS 371 or permission of the instructor. 3 credits.

373. Music Industry Entrepreneurship. This course for music business majors explores entrepreneurship in the music industry. The class revolves around the creation of a practical music business and an accompanying detailed business plan that is submitted to a participating financial institution for review. Student teams also engage with actual music businesses to provide marketing, distribution, research, and other services. The class discusses techniques and practices of management, operations, marketing, and other skills needed to run a successful music business. Prerequisites: MBS 371 and 372 (taken in the sophomore year), or permission of the instructor. 3 credits.

400. Internship. Prerequisites: Completion of all program requirements and permission of the instructor. 3-12 credits.

Music Education Program

The Bachelor of Science in music education (B.S.), approved by the Pennsylvania Department of Education and accredited by the National Association of Schools of Music, is designed for the preparation of public school music teachers, pre-kindergarten through grade 12, instrumental and vocal music. Piano and voice proficiencies for the music education major prepare the candidate to meet the standards of the Pennsylvania Department of Education and are administered by competency jury. Students participate in student teaching in area elementary and secondary schools. In all field experiences, as well as the student teaching semester, each student is responsible for transportation arrangements. During the student teaching semester, the candidate is not required to register for recital attendance, private lessons, or an ensemble.

Degree Requirements:

Degree: Bachelor of Science in music education (MED).

Music Education (B.S.): Core courses plus: MED 110, 223, 227, 330, 331, 333, 334, 335, 337, 437, 441, 442; MSC 316; 345 or 347; 416; EDU 240 or 245, SPE 250, 255, and 258; two college-level mathematics courses and one American or English literature course; and a 3.00 cumulative grade point average. Music education majors are permitted to register for only one half-hour lesson in their principle performance medium during the student teaching semester if they are preparing a recital. This is accomplished by petition.

Courses in Music Education (MED):

110. Foundations of Music Education. This course is a study of foundational matters that shore up an understanding of the music education process in schools, framing

philosophical issues cross-culturally and comparatively, so that prospective teachers might grasp a broader and more varied view of music in education across time and place. It will include a balance of the strong traditions of school music programs with the program transitions that are unfolding as society expands into technology and mediates popular culture. One component of the course will be a weekly field experience (two hours per week, minimum) to orient students into practical matters of curriculum and instruction linked to philosophical and theoretical issues. 3 credits.

223. *Brass Techniques.* A study of the brass family. Emphasis on pedagogical techniques. Mixed brass ensemble experience. 2 credits.

227. Percussion Techniques. A study of the percussion family. 1 credit.

280. *Field Practicum in Music Education.* Optional supervised field experiences in appropriate settings. Required pass/fail. Prerequisites: MED 110 and permission. 1–3 credits.

330. Woodwind Techniques. A study of the woodwind family. 2 credits.

331. String Techniques. A study of the string family. 2 credits.

333. Methods and Materials, General Music: Elementary. A comprehensive study of general music teaching at the elementary school level, the philosophy of music education, varied approaches for developing conceptual learning and music skills, creative applications, and analysis of materials. 3 credits.

334. Choral Literature and Methods. A study of literature, materials, and approaches appropriate for choral and general music classes in grades 5-12. Writing process. 3 credits.

335. Instrumental Literature and Methods. A study of literature, materials, philosophy, and methods applicable to the teaching of instrumental ensembles (including marching band) from elementary through high school levels. 3 credit.

336. Music Education Field Practicum. Students are placed in schools one hour per week where they are involved in a teaching/learning environment. 1 credit. (until spring 2011.)

337. Music Teaching and Learning I. This course is designed to introduce theories of learning with application to music education. Topics include stage and phase theories, theories of musical play and socialization, constructivist theory of meaning making, social learning and reinforcement theories, learning style theories, and theories/strategies of instruction. One component of the course is a weekly field experience in the local schools (one hour per week, minimum) to orient students into practical matters of music instruction and curriculum linked to principles of learning. Current and emerging education technology will be infused in the course. 2 credits.

437. Music Teaching and Learning II. This course is designed as the application of learning theories to the teaching of music, with particular focus on elementary/middle (gr. 4–8) and secondary (gr. 9–12) education. Topics include curriculum design, contemporary practices, and instructional materials, with an emphasis on current and

emerging technology. One component of the course will be a weekly field experience (one hour per week, minimum) in the local schools. 2 credits.

441. Student Teaching: Instrumental. Music education majors spend a semester in the music department of a school district under the supervision of cooperating teachers. 8 or 4 credits.

Prerequisites:

- (1) a cumulative grade point average of at least 3.00 prior to the student teaching semester. (Exception.)
- (2) two college-level mathematics courses and one American or English literature course.
- (3) successful completion of piano and voice proficiency juries.
- (4) completion of music core courses and MED 110, 223, 227, 330, 331, 333, 334, 335, 337, 437; MSC 316 (including field experiences); 345 or 347; 416.
- (5) approval of the music faculty. Students are responsible for transportation; the College cannot ensure that student teaching placement can be in a local geographic area.

442. Student Teaching: Vocal. Same as MED 441. 8 or 4 credits.

Music Recording Technology Program

The Bachelor of Music: emphasis in music recording technology (B.M.) is designed to prepare students for today's rapidly developing interactive media and music recording industries.

Degree Requirements:

Degree: Bachelor of Music: emphasis in music recording technology (MRT).

Music Recording Technology (B.M.): Core courses plus: MRT 177, 277, 278, 279, 373, 374, 377, 400, 474; MBS 371; PHY 101, 102, 203, 212, 350; MAS 102 (or MAS 161).

Courses in Music Recording Technology (MRT):

177. Survey of the Recording Industry. This course is intended to expose first-year MRT majors to the music industry overall and help them determine their choice of major. Class sessions will involve discussion, demonstration, and visits with MRT seniors who have completed their internships. 1 credit.

277. *Recording Engineering I.* Fundamentals of the recording arts including basic audio signal and acoustics theory, recording consoles, microphone design and technique, and signal processing. Students work in on-campus studios to complete lab assignments and projects. Prerequisite: PHY 102 or permission. 3 credits.

278. *Recording Engineering II.* Multitrack studio production techniques are further developed through class discussion, in-class recording sessions, and project assignments. Audio theory, processes, and issues are examined in-depth. Prerequisite: MRT 277, MRT majors only. 3 credits.

279. Tonmeister Recording. This course immerses students into the European tradition of Tonmeister engineering methods. This approach emphasizes an awareness of

acoustics, musical genres, and methods of on-location recording in order to effectively capture an acoustic performance in a concert hall. 1 credit.

373. Electronic Music. An in-depth look at the history, use and development of electronic music. Emphasis in MIDI, sequencing, transcription, sound design, synthesis techniques, sampling and studio production integration. Prerequisite: MRT 278 or permission of instructor. 3 credits.

374. Digital Audio. An in-depth examination of the principles and applications of digital audio in today's recording and interactive media industries. Topics discussed include: digital audio fundamentals, recording and reproduction systems theory, computer-based recording and editing, and audio for CD-ROM; and other new media applications. Prerequisite: MRT 278 or permission of instructor. 3 credits.

377. Recording Engineering III. A continuation of MRT 277/278, this 3rd course in the recording engineering sequence focuses on stereo recording, surround recording and mixing, and mastering. The emphasis is on listening critically for mic placement, understanding hall acoustics, applying musical decisions during the recording process, exploring new directions in surround sound for music production, and developing a musical, artistic, and technical awareness of issues involved in mastering projects for commerical release. Prerequisite: MRT 278, MRT majors only. 3 credits.

400. *Internship.* Practical on-the-job experience provides students insight, exposure, and experience in an area of interest within the music/interactive media industry. Pre-requisites: MRT 373, 374, 377, and permission of the program director. 3 credits. The internship can be taken either in the last semester, in the summer between junior and senior years, or full-time in the last semester for 12 credits. A full-time internship, if all other coursework and music requirements are completed, allows students to relocate for the term.

474. *Music Production Seminar.* Advanced issues of music production are discussed and practiced. These include musicality, client relations, engineering, budgets, etc. An individual emphasis is provided to help the student focus on these technical, artistic, organizational and personal aspects. The course centers around completion of a major project. Prerequisite: MRT 374, 377, or permission of instructor. 3 credits.

475. *Musical Frontiers.* An exploration of the sonic fringes of music. Subjects covered include electronic music history, theory, circuit bending, non-traditional instrumentation, avant-garde composition, and performance. Works ranging from composers Stockhausen to Yoko Ono will be analyzed. An ensemble will be created culminating with a capstone live performance of the created works. Prerequisites: MRT 373 and 374, or permission of instructor. An interview/audition is required. 3 credits.

Faculty

Johannes M. Dietrich, professor of music.

D.M.A., University of Cincinnati College-Conservatory of Music.

Dietrich teaches violin, viola, the string methods course, principles of conducting, and advanced instrumental conducting. He directs the Lebanon Valley College Symphony Orchestra, coaches chamber ensembles, and performs solo recitals.

Scott H. Eggert, professor of music.

D.M.A., University of Kansas.

Eggert teaches music theory, aural theory, counterpoint, orchestration, and composition. He is active as a composer and has premiered major works on and off campus.

Eric Fung, assistant professor of music.

D.M.A., The Juilliard School.

Fung teaches applied piano and courses in music and aural theory. He regularly performs as a soloist and as a collaborative artist.

Barry R. Hill, professor of music. Director of the Music Recording Technology Program.

M.M., New York University., D.Ed., The Pennsylvania State University

A member of the National Academy of Recording Arts and Sciences and the Audio Engineering Society, Hill is responsible for developing curriculum, maintaining the oncampus recording studios, and teaching courses in the MRT program. As a recording engineer, he has a long list of album credits, including several national chart-placing singles; his knowledge of music technology has been employed in record production, concert performances, theater sound design, theme park shows, system installations, workshops, and seminars. For fun, he teaches a graduate course, entitled Psychology of Music Teaching and Learning, for the Master of Music Education Program at LVC.

Mary L. Lemons, professor of music. Director of the Music Education Program. *Ed.D., University of Illinois at Urbana-Champaign.*

Coordinator of music education, she teaches music education methods courses, arranges and supervises music student teaching, and is a member of the MME Advisory Committee.

Rebecca C. Lister, associate professor of music.

D.M., Florida State University.

Director of vocal studies, Lister teaches applied voice, vocal literature, pedagogy, and diction.

Mark L. Mecham, professor of music. Chairperson.

D.M.A., University of Illinois at Urbana-Champaign.

His doctorate is in choral music, and he has experience in choral conducting, music education, and voice. Conductor of the Lebanon Valley College Concert Choir and Chamber Choir, Mecham also serves as adjudicator, clinician and consultant.

Shelly Moorman-Stahlman, professor of music.

D.M.A., University of Iowa.

Moorman-Stahlman teaches private organ and piano lessons, organ literature, organ pedagogy, and sacred music courses, and coordinates class piano instruction. She directs the handbell choir, performs frequently in solo organ recitals, and advises the Sigma Alpha Iota chapter.

Renee Lapp Norris, associate professor of music.

Ph.D., University of Maryland.

A musicologist by training, Norris teaches the music history sequence, American music history, and topics courses.

Victoria Rose, assistant professor of music.

M.M. Towson State University.

Teaching applied and class voice, Rose is an active recitalist and oratorio soloist in Central Pennsylvania, Philadelphia, and Baltimore.

Jeff Snyder, associate professor of music, Director of the Music Business Program. *M.S.*, *Kutztown University*.

He has designed curricula and presented seminars in audio recording and MIDI for several artists, public schools, colleges, universities and technical schools. He has produced, engineered and been a session player on contemporary and commercial jingles, songs and recordings.

Thomas M. Strohman, associate professor of music.

M.M., Towson State University.

He is responsible for woodwind studies and jazz studies and directs the jazz band. A founding member of the jazz ensemble Third Stream, he has recorded for Columbia Artists.

Dennis W. Sweigart, professor of music.

D.M.A., University of Iowa.

Sweigart teaches applied piano and courses in keyboard harmony, form and analysis, and piano pedagogy. He regularly performs as a soloist and as a collaborative artist.

Susan Szydlowski, director of special music programs.

B.A., *Colby College*. She has pursued graduate studies at Temple University.

Michelle L. Barraclough, adjunct assistant professor of music..

M.M., The Catholic University of America.

Teacher of applied flute, Barraclough also directs the Flute Ensemble and teaches flute literature and pedagogy.

Beverly K. Butts, adjunct assistant professor of music.

M.M., Michigan State University.

A well-known soloist, orchestral musician, and teacher in the region, Butts teaches applied clarinet, clarinet literature, pedagogy courses, and directs the clarinet choir.

Marie-Aline Cadieux, adjunct assistant professor of music.

D.M.A., Ohio State University.

Visiting artist and active recitalist, Cadieux teaches applied cello.

Cheryl L. Campbell, adjunct assistant professor of music. *M.M., Westminster Choir College of Rider University.*

Campbell teaches class and applied piano.

Christopher D. Campbell, adjunct assistant professor of music.

D.M.A., Shenandoah Conservatory of Shenandoah University.

Music educator and performer, Campbell teaches applied trumpet, and teaches trumpet pedagogy and literature.

John E. Copenhaver, adjunct assistant professor of music.

M.M., West Chester University.

Music educator and performer, Copenhaver teaches applied trumpet and directs the trumpet ensemble.

James A. Erdman II, adjunct instructor in music.

Retired solo trombonist, "The Presidents Own" United States Marine Band, Washington, D.C. He teaches low brass instruments and is founder and director of the Lebanon Valley College Low Brass Ensemble. He performs on the trombone and appears nationally as a soloist and clinician.

Suzanne D. Fox, adjunct assistant professor of music.

M.M., University of Miami.

A well-known music educator and performer in the region, Fox teaches French horn.

Ai-Lin Hsieh, adjunct assistant professor of music.

D.M.A., University of Maryland.

Active cello recitalist, Hsieh teaches the fundamentals of music course.

Linda W. Hummel, adjunct assistant professor of music.

M.A., The Pennsylvania State University.

Music educator and vocal performer, Hummel teaches Introduction to Music and supervises student teachers.

Robin Lilarose, adjunct instructor in music.

B.S., Elizabethtown College.

An active performer in regional orchestras and chamber ensembles, Lilarose teaches applied flute.

Jill Marchione, adjunct instructor in music.

M.M., Indiana University

A professional oboist, Marchione plays with several regional symphonies.

Randall J. Marks, adjunct instructor in music.

M.M., West Chester University

Music educator and performer, Marks supervises student teachers in the fall.

James E. Miller, adjunct instructor in music.

A member of the jazz ensemble Third Stream, his teaching specialty is string bass and electric bass. He has played with several regional symphonies in the area and directs the small jazz ensemble.

Joseph D. Mixon, adjunct associate professor of music.

M.M., Combs College of Music.

He is a professional guitarist in the tri-state area and teaches private lessons, class guitar, guitar ensemble, and jazz theory.

Michael R. Newman, adjunct instructor in music.

B.M., Lebanon Valley College

Newman teaches the capstone Music Production Seminar in the MRT program. An accomplished recording engineer and producer who worked closely with Shelly

Yakus, Newman is a long-time engineer whose credits include such giants as John Lennon, U2, and many other artists over the years.

Robert A. Nowak, adjunct associate professor of music. *M.M., University of Miami.*

He teaches percussion and directs the Percussion Ensemble.

Andrew Roberts, adjunct instructor in music.

B.M., Berklee College of Music.

A well-known composer, arranger, keyboardist, and music director in the region, Roberts teaches jazz studies.

Josh Tindall, adjunct assistant professor of music. *B.A., Lebanon Valley College. 2004; M.B.A., 2008.* Tindall teaches class and applied piano.

Joe Trojcak, adjunct instructor in music recording technology.

B.A., West Chester University.

Trojcak owns Progressive Enterprises Sound Studios, a facility that provides audio production for music, corporate, and political clients. He has taught one of the MRT recording classes, is a seminar speaker for the program, and hosts many of our interns.

Craig Underwood, adjunct instructor in music recording technology. *B.M., Lebanon Valley College.*

Tom Volpicelli, adjunct instructor in music recording technology.

B.A., Gettysburg College.

A member of NARAS and AES, Volpicelli teaches Recording Engineering III for the MRT program. He is CEO and president of The Mastering House, Inc., and has a long track record in the recording industry (notably live recording and mixing for the King Biscuit Flower Hour productions). His company offers mastering, authoring, production, and programming for multimedia and Internet-based applications.

Julia P. Wagner, adjunct associate professor of music.

M.A., Ithaca College.

A professional bassoonist, Wagner plays with several regional symphonies.

Michael Wojdylak, adjunct associate professor of music.

D.D.S., University of Maryland.

Wojdylak directs the College choir and teaches private voice lessons.

DEPARTMENT OF PHYSICAL THERAPY

Health Science Program

This curriculum shall only be completed by students enrolled in the six-year Doctor of Physical Therapy (DPT) program. At the end of four years of study, students enrolled in the DPT program will receive a Bachelor of Science in health science. In order to proceed into the professional phase of the DPT program, students must maintain: (1) a minimum cumulative 3.0 GPA in all coursework; (2) a minimum cumulative science GPA of 2.5 (the required biology, chemistry, physics, anatomy, and physiology courses), and (3) no individual science grade lower than a C (2.0). Science courses may be repeated only once to meet the GPA requirement. All required courses must be taken for a grade. Only one science course can be transferred in from another institution (excluding study abroad). The grade from this course must be a "C" (2.0) or better to satisfy program requirements. Departmental students not meeting the GPA requirements at the end of the third year may complete their senior or fourth-year requirements and graduate with the health science degree but may not continue into the professional (graduate) phase.

Required pre-professional course work includes completion of the general education program and major requirements including 18 credit hours in a cognate discipline or minor of choice. In fulfilling the cognate requirement, students must take at least two courses at the 300-level or higher.

Doctor of Physical Therapy degree requirements can be found on page 191. All students will complete a comprehensive criminal background check during the first professional phase year.

Lebanon Valley College's Doctor of Physical Therapy Degree Program is accredited by the Commission on Accreditation in Physical Therapy Education.

Degree Requirements:

Degree: Bachelor of Science with a major in health science.

Major: BIO 111, 112, 113, 114, 222; CHM 111, 112, 113, 114; PHY 103/105, 104/106; MAS 170 or 270, or PSY 212; PSY 111 or 112; SOC 110 or 120; PHT 311, and a choice of PHT 412 or SOC 324. (44 total credits.)

No minor is offered in health science.

All courses are limited to students enrolled in the health science-DPT track with the exception of PHT 412.

Courses in Health Science (PHT):

202. Comparative Health Care Professions and Systems. An independent study course to be completed while enrolled in the Study Abroad Program. Students compare the health care system in the visited country with the complex system present in the United States of America. Writing process. 3 credits.

311. Fundamentals of Anatomy. This course is designed to introduce students to the basics of human anatomy. The course will cover human muscle origins, insertions, and actions as well as describing in depth systemic anatomy of the skeletal, circulatory, respiratory, renal, reproductive, and nervous systems. The course will use a traditional lecture format and both anatomical models and computer software to aid in learning

course material. Prerequisite: BIO 112 and permission of the instructor. 4 credits.

412. *Psychosocial Aspects of Disease and Disability.* A survey course of the psychosocial implications of illness and disability. Specific attention is given to cultural differences, adjustment models, family stress from caregiving, family violence, and normal grieving processes. Disciplinary perspective. 3 credits.

502. Professional Issues of Physical Therapy Practice I. Introduces students to key professional ethical and practice issues, including communication and health policy. 3 credits.

504. Professional Issues of Physical Therapy Practice II. Continued study of professional ethical and practice issues and patient care documentation. Students develop an understanding of the impact of ethical decision-making through self-discovery and teaching. Theories of teaching and learning are introduced as a basis to understand the learning process and to investigate patient education in physical therapy practice. 4 credits.

511. Human Anatomy. Explores human neuromusculoskeletal, cardiovascular, pulmonary, and integumentary systems. Laboratory exercises include cadaveric dissection. Prerequisite: GPA greater than 3.0. 5 credits.

514. Pathophysiology. Examines basic human pathology and medical principles, including, but not limited to, inflammation, infection, systemic conditions, diagnostic imaging, genetics, and clinical laboratory tests. 4 credits.

516. *Biomechanics and Kinesiology.* Examines tissue and joint structure and function, and the mechanical principles involved in human motion. The laboratory portion will introduce students to the basics of postural and gait assessment. Prerequisite: PHT 312. 4 credits.

518. *Exercise Science.* Examines skeletal muscle structure and function and cardio-vascular, respiratory, and neuromusculoskeletal physiology related to physical activity and exercise in general and special patient/client populations. Current methods of nutritional and physical assessment will be evaluated. 3 credits.

520. *Motor Control.* This course will focus on the processes that govern human movement acquisition and control across the lifespan and will prepare students to apply principles of motor development, motor control, and motor learning to clinical practice. Emphasis will be placed on developing a working knowledge of the neural, physical, and behavioral aspects of human movement and the process involved in acquiring and refining motor skills across the lifespan. 2 credits.

532. Clinical Examination. An introduction to the tests and measurements used by physical therapists in the clinical and research settings. Laboratory sessions will provide the student with an opportunity to integrate concepts and apply the therapeutic interventions discussed in lecture. 4 credits.

534. Cardiovascular/Pulmonary Physical Therapy. Examines the physical therapy management of individuals with cardiac and respiratory dysfunction. Particular attention is focused on exercise prescription, patient management in various clinical set-



tings, current medical and surgical procedures, and guidelines and education for inpatient and outpatient rehabilitation. 4 credits.

542. Pharmacology in Rehabilitation. Provides a general introduction to pharmacological principles including basic pharmacokinetics and pharmacodynamics. Descriptions of general classes of medications and their impact and utilization in rehabilitation are stressed. 2 credits.

550. Evidence Based/Critical Inquiry Physical Therapy I. Provides a critical appreciation of basic science, clinical, and grounded theory research to the evolution of physical therapy as an evidence based clinical health professional discipline. 2 credits.

560. Clinical Education and Practice I. This course serves as the orientation to Clinical Education and Practice for the Doctor of Physical Therapy Program. Students will be introduced to performance expectations and requirements for clinical education, the practice of self-reflection, health-care privacy and confidentiality, Standard Precautions and health-care safety, professional communication and interactions, and the clinical site selection process. Graded pass/fail.1 credit.

Faculty

Stan M. Dacko, associate professor of physical therapy. Chairperson.

Ph.D., Hahnemann University

He teaches cardiopulmonary, physical therapy, and neuroscience. His research interests are related to motor control and interventions for neurodegenerative diseases.

Marcia Epler, associate professor of physical therapy.

Ph.D., Temple University.

She teaches biomechanics and kinesiology and the musculoskeletal course series. Her research interests include clinical and functional outcome and orthoses efficacy. Clinical practice areas include orthopedics and sports medicine.

Michael Fink, assistant professor of physical therapy.

D.S.C., Baylor University.

He teaches differential diagnosis, pharmacology, and human anatomy. His research interests include: ACL rehabilitation/prevention/functional testing, shoulder instability rehabilitation/prevention, and the impact of exercise on diabetes.

Claudia C. Gazsi, assistant professor of physical therapy. Director of clinical education.

M.H.A., The Pennsylvania State University.

She teaches foundational professional issues courses and oversees the clinical education course series. Her interests include fall reduction, balance, and vestibular disorders.

Michael E. Lehr, clinical assistant professor of physical therapy.

D.P.T., Temple University.

He teaches clinical examination and clinical interventions. His research interests include manual therapy, functional exercise/movement, and clinical decision making within the orthopedics and sports medicine field.

Victoria Marchese, assistant professor of physical therapy

Ph.D. Hahnemann University.

She teaches pathophysiology and evidence based/critical inquiry. Her research interests involve the investigation of exercise as an intervention and the development of functional outcome measures for children with cancer.

Roger M. Nelson, professor of physical therapy.

Ph.D. University of lowa.

He teaches the evidence based/critical inquiry physical therapy series and selected physical therapy practice topics. His research interests include outcome modeling using activity-based methodology and patient satisfaction.

Kathryn N. Oriel, assistant professor of physical therapy.

Ed.D., Idaho State University.

She teaches pediatric physical therapy, health promotions, and motor control. Her research interests are related to school-based physical therapy practice and infant/toddler development.

Matt Heintzelman, adjunct professor of physical therapy.

P.T., University of Scranton; M.S. Penn State University, Great Valley; Cert MDT. He teaches Exercise Science.

Andrew Milosz, adjunct professor of physical therapy.

M. Biomed. Eng., Technical University of Warsaw, Poland; M.Ph.Ed. Faculty of Health and Physical Education, Warsaw, Poland; M.D.T., McMaster University, Hamilton, Canada.

He teaches Fundamentals of Anatomy.

Matt Winger, adjunct professor of physical therapy.

M.S.W., L.S.W., A.C.S.W., C.S.W.H.C

He teaches Psychosocial Aspects of Disease and Disability.

DEPARTMENT OF PHYSICS

Physics Program

Physics, the most fundamental science of the physical world, combines the excitement of experimental discovery and the beauty of mathematics. The program in physics at Lebanon Valley College is designed to develop an understanding of the fundamental laws dealing with motion, force, energy, heat, light, electricity and magnetism, atomic and nuclear structure, and the properties of matter.

Students major in physics as a preparation for professional careers in industry as physicists and engineers, and education as high school and college teachers. Other possibilities include technical writing, sales and marketing. Physics students can continue their professional training by going to graduate school in physics and engineering, or to other professional schools offering degrees in such fields as health physics and business.

The facilities of the Physics Department are located on the second floor of the Neidig-Garber Science Center. In addition to the introductory physics laboratories, the department maintains an atomic/nuclear laboratory, computational physics laboratory, electronics laboratory, optics laboratory, atomic force microscope laboratory, and student research laboratory.

Students majoring in physics take advantage of close contact with faculty, work as paid laboratory assistants, pursue independent study or research/internships, and participate in the local chapter of the Society of Physics Students. Summer research opportunities, supported by college funds or external grants, are available for physics students.

The requirements for the physics major, like other majors at LVC, are designed so students can study abroad for one semester (typically in their junior or senior year). Hence, students can combine their study of physics with the richness of an international experience by participating in any college-wide study-abroad program (e.g., New Zealand Program).

The Physics Department also directs the 3+2 Engineering Program. For details, see Cooperative Programs, page 29.

Degree Requirements:

Degree: Bachelor of Science with a major in physics.

Major: PHY 111, 112, (or 101, 102 or 103/105, 104/106 with permission), 211, 311, 312, 321, 322, 327, 328 and four additional semester hours above 211; MAS 161, 162, 261 and 266 or MAS 111, 112, 261 and 266 (43–47 credits).

Minor: PHY 111, 112 (or 101, 102 or 103/105, 104/106), 211, plus 6 credits in physics above 211; MAS 111 or 161 (21–23 credits).

Secondary Teacher Certification: Along with the major requirements, students seeking secondary certification in physics must take either BIO 111/113 or BIO 103, and CHM 111/113. Certification candidates must also complete 33 credits in additional required coursework. See the Education Department section on pages 84–85 for additional information.

Courses in Physics (PHY):

100. Physics and Its Impact. A course that acquaints the student 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. 4 credits.

101, 102. Fundamentals of Physics I, II. 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. Emphasis and applications appropriate for music recording technology majors. Prerequisite: PHY 101 (or equivalent) for PHY 102. 4 credits per semester.

103, 104. General College Physics I,II. 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. 3 credits per semester. Pre-requisite: PHY 103 (or equivalent) for PHY 104.

105, 106. General College Physics Laboratory I, II. Laboratory exercises in the areas of mechanics, heat, sound, electricity, and magnetism, optics, and atomic and nuclear physics. PHY 105 must be taken concurrently with PHY 103. PHY 106 must be taken concurrently with PHY 104. 1 credit per semester.

111, 112. Principles of Physics I, II. An introductory course in classical physics, designed for students who desire a rigorous mathematical approach to college physics. 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. Prerequisite or corequisite: MAS 111 or 161. Prerequisite: PHY 111 (or equivalent) for PHY 112. 4 credits per semester.

120. *Principles of Astronomy.* An introduction to the forces that shape the solar system and the universe as well as the tools used to observe them. It presents a comprehensive review of the modern scientific view of the physical universe. Topics include the history of astronomy, astronomical technology, and the structure and evolution of astrophysical systems including the solar system, Sun, other stars, and galaxies. Laboratory work required. [Cross-listed as Earth and Space Science 120.] 4 credits.

203. Musical Acoustics. The study of wave motion, analysis and synthesis of waves and signals, physical characteristics of musical sounds, musical instruments, the acoustical properties of rooms and studio design principles. Prerequisite: PHY 102, 104 or 112 or permission. 3 credits.

211. Atomic and Nuclear Physics. An introduction to modern physics, including special relativity, the foundation of atomic physics, quantum theory of radiation, the atomic nucleus, radioactivity and nuclear reactions, with laboratory work in each area. Pre-requisite: PHY 102, 104 or 112, MAS 111 or 161 or permission. 4 credits.



212. Introduction to Electronics. The physics of electrons and electronic devices, including diodes, transistors, power supplies, amplifiers, oscillators, switching circuits, and integrated circuits, with laboratory work in each area. Prerequisite: PHY 102, 104 or 112, or permission. 4 credits.

261. *Introduction to Computational Physics.* An introduction to the approximate numerical solution of physical problems with computers. The course focuses on problems from mechanics, electromagnetics, and quantum mechanics that are not analytically solvable. Topics include realistic projectile motion, planetary motion, and electromagnetic fields produced by charge and current distributions. Prerequisites: PHY 102, 104, or 112 and MAS 111 or 161. 3 credits.

302. Optics. A study of the physics of light, with emphasis on the mathematics of wave motion and the interference, diffraction and polarization of electromagnetic waves. The course also includes geometric optics with applications to thick lens, lens systems and fiber optics. Prerequisites: PHY 112 and MAS 112 or MAS 162. 3 credits.

304. Thermodynamics. A study of the physics of heat, with emphasis on the first and second laws of thermodynamics. Applications of thermodynamics to physics and engineering are included. Elements of kinetic theory and statistical physics are developed. Prerequisites: PHY 112 and MAS 112 or MAS 162. 3 credits.

311, 312. Analytical Mechanics I, II. 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: PHY 111 and MAS 266. 3 credits per semester.

321, 322. Electricity and Magnetism I, II. Theory of the basic phenomena of electromagnetism together with the application of fundamental principles of 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: PHY 112, MAS 261, and MAS 266. 3 credits per semester.

327, 328. Experimental Physics I, II. Experimental work selected from the areas of mechanics, AC and DC electrical measurements, optics, atomic physics, and nuclear physics, with emphasis on experimental design, measuring techniques and analysis of data. Prerequisite: PHY 211. PHY 328 is writing process. 1 and 2 credits per semester.

350. *Audio Electronics.* A study of electronics as used in the audio and telecommunications industries. Various principles of signals including frequency, bandwidth, modulation and transmission are discussed. Studio maintenance and repair techniques are emphasized. Laboratory work included. Prerequisite: PHY 212. 3 credits.

360. The Teaching of Physics in Secondary Schools. 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. 1 credit.

421, 422. *Quantum Mechanics I, II.* A study of selected topics in modern physics, utilizing the methods of quantum mechanics. The Schrodinger equation is solved for such systems as potential barriers, potential wells, the linear oscillator and the hydrogen atom. Perturbation techniques and the operator formalism of quantum mechanics are introduced where appropriate. Prerequisites: PHY 211 and MAS 266, or permission. 3 credits per semester.

428. Advanced Instrumentation. Theory of operation of the atomic force microscope, the scanning electron microscope and nuclear magnetic resonance spectrometer. Through laboratory exercises and experimental work, students will learn the proper use and application of these instruments. Prerequisites: PHY 327 or permission (advanced students in the sciences or technical fields are encouraged to consider this course). I to 3 credits.

Faculty

Michael A. Day, professor of physics.

Ph.D., University of Nebraska.

He has two doctorates: one in physics, one in philosophy. His publications are in theoretical physics (specializing in anharmonic solids), the philosophy of science, and the teaching of physics. Day also worked for Shell Oil as a geophysicist. He recently spent one year teaching in China. In 1999, he received the Vickroy Award for distinguished teaching.

Barry L. Hurst, associate professor of physics. Chairperson.

Ph.D., University of Delaware.

His background in sputtering involves investigating the material ejected from ion-bombarded surfaces using the technique of secondary ion mass spectrometry. Other interests include electronics and experimental design. Recently, Hurst was awarded an National Science Foundation grant in atomic force microscopy.

Scott N. Walck, professor of physics.

Ph.D., Lehigh University; postdoctoral research, University of Rochester and Naval Research Laboratory.

He enjoys mathematical physics and quantum mechanics. Walck studies quantum information theory, particularly the theory of quantum entanglement, and collaborates with students in this research. The aesthetic appeal in mathematical descriptions of physical reality drives his interest in physics.

Allen C. Boyer, adjunct instructor of physics

D.Ed., Pennsylvania State University.

Thesis research was on superconducting properties of the metal tantalum. Served as the science coordinator for Manheim Township School District developing curricula and laboratories. Interests include science education and inquiry oriented approaches to teaching physics.

Thomas G. Hollingsworth, adjunct instructor in physics.

M.S., Gonzaga University.

He is a retired U.S. Air Force command pilot with extensive experience in aviation. He manages a variety of the departmental outreach programs and is a member of the Hershey School Board. His interests include secondary education, introductory college physics, and atomic force microscopy.

Earth and Space Science Program

Two courses in earth and space science are offered to acquaint students with the physical aspects of the world in which they live and to introduce them to earth and space science as a discipline. These courses are recommended for all students who wish to broaden their understanding of the world.

Courses in Earth and Science (ESS):

110. Principles of Geology. An introduction to the dynamic Earth and the interrelations of both the internal and external processes which shape it. This course offers an overview of the history and evolution of Earth in the context of plate tectonics. It explores the nature of volcanoes, earthquakes, mountain building processes, weathering, erosion, and the various origins and compositions of Earth materials. Opportunities for hands-on inquiry are provided for the student in both the laboratory and in the field. 4 credits.

120. Principles of Astronomy. An introduction to the forces that shape the solar system and the universe as well as the tools used to observe them. It presents a comprehensive review of the modern scientific view of the physical universe. Topics include the history of astronomy, astronomical technology, and the structure and evolution of astrophysical systems including the solar system, Sun, other stars and galaxies. Laboratory work required. 4 credits. [Cross-listed as PHY 120.]

DEPARTMENT OF PSYCHOLOGY

The Psychology Department at Lebanon Valley College seeks to foster an understanding of human behavior that is built on a scientific foundation and is applied to real world phenomena and problems. Our curriculum is a student-oriented, liberal arts program that prepares students, following graduation, for applied entry positions in the work force, or for graduate studies in a range of areas such as psychology, neuroscience, social work, medicine, business, education, and law. The program allows our students to become psychologically literate individuals who can (a) attain significant professional accomplishments within the field, and also (b) apply their knowledge towards understanding and shaping behavior-related public policies, critically analyzing media-based coverage of psychological topics, and enhancing various elements of their own and others' lives. This approach is consistent with the mission of the College, which is to enable "students to become people of broad vision, capable of making informed decisions and prepared for a life of service to others."

The department offers students the benefits of a strong classroom-based traditional background in the core subdisciplines of psychology, along with providing opportunities to become involved in the field of psychology in an applied manner. Many psychology majors gain practical knowledge through (a) participation in independent and collaborative research projects under the guidance and supervision of individual faculty members, as well as (b) our extensive internship program, which allows students to receive college credit for work experience relevant to their particular interests within the field of psychology. Overall, the Department of Psychology at Lebanon Valley College offers the "best of both worlds": experiences and facilities usually associated only with larger universities, along with individualized instruction and advisement characteristic of small liberal arts institutions.

Psychology Program

The psychology program requires all majors to complete a minimum of 46 credits of psychology coursework. All majors initially complete several foundation courses, which include introductions to a vast array of subfields within psychology, as well as laboratory-based exposure to the nature of research design and analysis. Students then complete courses within each of five critical psychological subdisciplines (human development, psychopathology, biopsychology, cognition, and social processes), which include additional, advanced, lab-based research. Finally, all majors complete an integrative capstone experience, which includes coursework surveying the history of psychology, as well as the completion of an individualized internship or research project.

Degree Requirements:

Degree: Bachelor of Science with a major in psychology.

Major: PSY 111, 112, 201, 211, 212, 310, and 443; one course from 325, 333, 347, 364, or 379; one course from 400 or 410; an additional 6 PSY credits. Students must also complete one course from each of the following five core areas: biopsychology: 280, 285, 378; cognition: 250, 260, 363; human development: 230, 235, 324; social processes: 240, 245, 247, 255, 346; psychopathology: 265, 268, 270, 332. (46 credits).

Minor: PSY 111, 112, 211 and 212; 6 credits at the 200-level or higher; 3 credits at the 300-level. (24 credits).

Courses in Psychology (PSY):

111. General Psychology I. This laboratory course is designed as an introduction to the conceptual and methodological foundations of psychological science. Through an exploration of several content areas in psychology, including physiological psychology, sensation and perception, learning, cognition, and states of consciousness, the course provides a conceptual background for understanding behavior, and active engagement with the scientific process (including theory building, hypothesis testing, and critical analysis of empirical data). 4 credits.

112. General Psychology II. This survey course examines the relationship between research and theory in the field of psychology, with emphasis on the field of applied psychology. Individual and societal influences on physical and psychological health will be examined. Topics will include psychological testing, personality theory, intelligence, motivation and emotion, social behavior, and psychological disorders and treatment. 3 credits.

180. Child Development and Education. A survey of major ideas in child development and educational psychology, with an emphasis on classroom applications. Topics include human development, intelligence, language, learning, memory, motivation, social and cultural contexts of development, and assessments. 3 credits.

201. Sophomore Seminar. This course is designed to help clarify students' interest and long-term plans for the field of psychology. Topics include identifying the academic and interpersonal abilities necessary to become a successful student at the undergraduate level and beyond, reviewing the broad skills and values related to different careers in psychology, preparing students for the different elements of job searching and applying to graduate school, exploring employment options in psychology available to individuals with bachelor's and graduate degrees, and reflecting on one's own skills/interests to develop a general career plan for their post-collegiate life. This will be a pass/fail course for all students. Prerequisite: PSY 111 or permission of the instructor. 1 credit.

211. *Research Methods in Psychology.* This foundational laboratory course introduces students to scientific methodology and experiment design as it applies to psychology. Students learn how to identify research questions through literature reviews, develop hypotheses, appropriately design and conduct research projects, and draw conclusions from the findings. The course engages students in data-collection laboratory experiences that culminate in the development, execution, analysis, and APA-style presentation of an original experiment on a behavior-related topic of their own choosing. Prerequisite: PSY 111 or permission of the instructor. Writing Process. 3 credits.

212. Statistics and Data Analysis. This laboratory course explores the basic quantitative and qualitative statistics and data-based analytical methods used by scientists to interpret and understand behavior. Topics include the logic of the scientific method applied to data analysis, descriptive statistics, the foundations and utility of inferential

statistics, and the statistical methodologies of simple and advanced hypothesis testing. Students will also design, analyze, and present the results of their own original data-collection project. Prerequisite: PSY 111 or permission of the instructor. 4 credits.

230. *Psychology of Adolescent Development.* A study of the psychological characteristics and changes occurring during adolescence. Topics include psychological development, social influences, cognitive and intellectual development, identity and self-concept, sexual development, values, and transition to adulthood. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

235. Psychology of Adult Development and Aging. A study of research, literature, and theories concerned with psychological change in the adult, from early adulthood to death. Current research methods and findings are covered in the areas of physical, cognitive, personality, and social changes in the adult years. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

240. Organizational Psychology. Psychological principles applied to organizational behavior. Topics include individual factors (personality, attitudes, perceptions), group dynamics, personnel selection and training, communication, leadership, ergonomics and organizational change. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

245. Personality. A study of the major theories of personality, with emphasis on psychoanalysis, humanistic psychology, behaviorism, social learning, and trait theory. Prerequisite: PSY 111 or permission of the instructor. Writing process. 3 credits.

247. Psychological Perspectives on Gender. This course is designed to address a broad spectrum of issues related to the psychology of gender. Of central importance is the examination of empirical findings related to gender differences and similarities in biological, behavioral, cognitive, social, and emotional domains. The course will also involve a critical examination of the meaning of gender in the field of psychology and in the broader society. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

248. Health Psychology/Behavioral Medicine. This course is designed as an introduction to health psychology/behavioral medicine. It will consider the role of psychology in the health field, including medical settings. It covers the relationship between psychological factors and physical disease from predisposition through maintenance. The study of behavioral medicine will include treatment of stress and stressrelated disorders, preventive health behaviors and factors related to adherence of treatment programs. It also explores the psychological connections of pain and pain management, and how personal control is related to both health and the disease process. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

250. Sensory and Perceptual Processes. Surveys structures and functions of, and research strategies to examine, the various sensory systems with particular emphasis on the visual system. Physiological, psychological and philosophical aspects of perception are discussed. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

252. The Science of Emotion. This course covers the philosophical, psychological, scientific foundations and Implications of the emotion process. This course covers a) several key questions in the science of emotion, b) scientific approaches to the study of emotion, c) several processes associated with the emotion process, and d) major theories of emotion. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

255. Evolutionary Psychology. This course is an approach to psychology in which knowledge and principles from evolutionary biology are used to research the structure of the human mind. Topics will include the adaptive problems of survival, mating, parenting, kinship, cooperation, warfare, and conflict between the sexes. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

260. Learning and Memory. This course explores various processes involved in knowledge acquisition, storage, and retrieval. Specific topics include associative learning mechanisms, the impact of reinforcement and punishment on behavior, generalization and discrimination, memory encoding, long-term memory storage and retrieval, memory distortions, and the sources of individual differences in learning and memory. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

265. *Abnormal Behavior and Experience.* A study of mental, emotional and behavioral problems, including alcohol and drug abuse, brain disorders, criminal and psychopathic behavior, neuroses, psychophysiological reactions, psychoses, sexual deviations, subnormal intelligence, and suicide. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

268. *Introduction to Clinical Psychology.* A study of the ways psychologists assist persons and groups. Particular attention is given to assessment, individual and group therapy, marriage and family counseling, and community psychology. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

270. *Forensic Psychology.* This course will focus on three critical areas that fall under the umbrella of forensic psychology. First, students will be introduced to the area of legal psychology, including applied empirical research on issues important to the legal system such as eyewitness accuracy, police selection, jury decision making, and legal assumptions about human behavior relevant to the rights of defendants, victims, children, and consumers of mental health services. Second, the area of psychological jurisprudence will be explored by studying efforts to develop a philosophy of law and justice based on psychological values. Third, students will be introduced to the concepts generally thought of as forensic psychology, such as criminal profiling, insanity defense, competence to stand trial, and child custody decisions. Prerequisite: SOC 110 or PSY 111. 3 credits. [Cross-listed as SOC 270.]

280. Introduction to Neuropsychology. This course serves as an introduction to the content areas and methodology of neuropsychology, the study of the relationships between brain function and behavior. Topics include basic communication in the nervous system, organization and function of sensory and motor systems, hemispheric specialization, localization of function, brain injury and plasticity, and issues associated with neuropsychological assessment. Prerequisite: PSY 111 or permission of the instructor. 3 credits.



285. *Introduction to Psychopharmacology.* This course surveys the most commonly used substances to treat mental disorders, such as antianxiety, antidepressant, antipsychotic, mood-stabilizer, psychostimulant, and cognitive enhancer medications. The course also discusses the brain and its most common neurotransmitters, how transmitting neurons send and receive electrochemical information, the pharmokinetics (metabolism and elimination) and pharmacodynamics (absorption, distribution, and effects) of each drug, as well as the action sites, side effects, and mechanisms of each drug. Prerequisite: PSY 111 or permission of the instructor. 3 credits.

310. Advanced Research Design. This seminar, for junior- and senior-level undergraduates, is designed to prepare students for the capstone experience(s) of PSY 400 and/or PSY 410. The course focuses on developing students' abilities to apply their knowledge of psychological theory and experimental methodology towards the critical appraisal of existing empirical research within psychology. The course will culminate in students utilizing these evaluative skills in the context of proposing a novel experiment on a psychological topic of their choosing. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor. 2 credits.

324. Psychology of Child Development. This course provides a broad foundation for understanding child development through an integration of practical, theoretical, and research orientations. Attention is given to both cultural and biological determinants of social, cognitive, physical, and emotional development, focusing on individual differences as well as group similarities. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor. 3 credits.

325. Child Development Laboratory. The course will provide students with experience planning (including IRB approval), observing, measuring, and analyzing child behavior using the methods employed by developmental researchers. This is intended to supplement the theory and research background they receive in PSY 324. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor; students must also have either completed or be currently enrolled in PSY 324. 1 credit.

332. Psychological Testing and Assessment. An introduction to the principles of psychological measurement, methods of test design and construction, and applications and interpretations of existing psychological tests. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor. 3 credits.

333. Psychological Testing and Assessment Laboratory. Students will be given the opportunity to experience how psychological tests are designed and evaluated. Each student will conduct a literature review on their selected topics, and then design, construct, distribute, and evaluate the validity/reliability of a psychological test instrument consistent with a research theme that will change every year. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor; students must also have either completed or be currently enrolled in PSY 332. 1 credit.

346. Social Psychology. A study of the inter- and intra-personal relationships between individuals and groups, with emphasis on theories and research studies. The topics covered may include attitude development and change, conformity, persuasion, person perception, attribution, attraction, and group processes. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor. 3 credits.

347. Social Psychology Laboratory. This course is intended to provide students with hands-on experience in the types of survey design, observational research, and labbased experimentation consistent with group behavior, interpersonal relationships, and the interaction between social issues and popular culture. The course culminates in the presentation of data from students' original research within social psychology. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor; students must also have either completed or be currently enrolled in PSY 346. 1 credit.

360. The Teaching of Social Science in Secondary Schools. This course is designed for students seeking certification to teach social science courses (psychology, sociology, and anthropology) at the secondary school level. Under the supervision of College faculty, students will be responsible for preparing lecture and lab materials, teaching selected topics, and preparing, administering, and evaluating course assignments and exams.1 credit.

363. Cognitive Science. This course explores the human mind by integrating philosophical, psychological, and biological perspectives on the nature of thought processes. Specific topics discussed in this framework include attention, perception, consciousness, memory, language, reasoning, intelligence, and thought-related dysfunctions. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor. 3 credits.

364. Cognitive Science Laboratory. This is an advanced, hands-on seminar in cognitive science, which will allow students to explore a preferred interest in human thinking via laboratory research. Students will review the literature on their chosen topic, design an experiment addressing this issue, and then collect and analyze the data from their experiment. The course culminates with an oral and written presentation of their research. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor; students must also have either completed or be currently enrolled in PSY 363. 1 credit.

378. Behavioral Neuroscience. A study of the biological basis (substrates) of behavioral processes. The course focuses on the physiology of reflexes, sensation and perception, learning and memory, sleep, ingestive behaviors, emotion and psychopathology. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor. 3 credits. [Cross-listed as PBI 378.]

379. *Behavioral Neuroscience Laboratory.* Students will be introduced to methods used in the study of the nervous system and its influence on behavior. Lab work will include collecting, analyzing, and reporting data from physiological studies, as well as sheep brain dissection and stereotaxic neurosurgery. In addition, students must complete an APA style proposal for an individual research project. Prerequisites: PSY 111, 112, 211, and 212, or permission of the instructor; students must also have either completed or be currently enrolled in PSY 378. 1 credit. [Cross-listed as PBI 379.]

400. *Internship.* This course focuses on practical and professional work experience related to the student's work or research interests or graduate school plans. Internships are limited to off-campus sites only. Students should not take more than six credits per semester. This will be a pass/fail course for all students. Prerequisites: PSY 310, and junior or senior standing; completion of departmental form; approval of internship site by student's adviser prior to registration. 1-12 credits.

410. *Independent Laboratory Research.* This advanced seminar allows students to explore their own research-based interests in psychology via the completion of a laboratory experiment on a psychological topic of their choosing. Students will review the literature on their topic in an integrative manner, formulate a novel experiment that addresses some aspect(s) of their chosen discipline, collect and analyze data for their experiment, and then present their findings in the form of an oral presentation and a complete APA-style research manuscript. Prerequisites: PSY 310 and junior or senior standing, and a meeting with the course instructor prior to the start of the semester to begin discussing possible research topics. Students may enroll in a maximum of 3 credit hours per independent laboratory research may be used toward the graduation requirements. 3 credits.

443. *History and Theory.* A study of the history of psychology, including philosophical precursors to psychology, early and modern schools of thought within psychology, important trends, and famous psychologists. Prerequisites: PSY 111, 112, 211, 212, and at least 6 completed credits at the 200 level or higher. Writing process. 3 credits.

Faculty

Deanna L. Dodson, professor of psychology.

Ph.D., University of Memphis.

Her teaching interests are in psychobiology, experimental psychology, and general psychology. Her current research areas include hemispheric specialization and handedness, and developmental patterns in lateralization. She is a member of the Association for Psychological Science, Sigma Xi, and the Eastern Psychological Association.

Michael B. Kitchens, assistant professor of psychology.

Ph.D., University of Mississippi.

His teaching interests are in general psychology, introductory and advanced research courses, as well as specialty courses in the science of emotion and social psychology. His research interests are in self-control, social rejection, terror management theory, and emotional Intensity. He is a member of Psi Chi, Alpha Theta Chi, the Eastern Psychological Association, the Society for Personality and Social Psychology, and the Association for Psychological Science.

Louis B. Laguna, associate professor of psychology.

Ph.D., University of Nebraska-Lincoln.

His teaching interests are in clinical psychology, psychopharmacology and forensic psychology. He supervises internship students and is a Pa. state-licensed clinical psychologist His research interests include psychophysiological processes of fear and a variety of topics in police and forensic psychology. He is a member of the Pennsylvania Psychological Association.

Lou Manza, professor of psychology. Chairperson.

Ph.D., City University of New York.

His teaching interests include cognitive processes, research design and analysis, the history of psychology, and paranormal & pseudoscientific phenomena. His research interests focus on perceptual sets, and schema development/change, as applied to pseudoscientific beliefs. He is a member of the Association for Psychological Science, the Eastern Psychological Association, Division 2 of the American Psychological Association (Teaching of Psychology), Psi Chi, and an associate member of the Committee for Skeptical Inquiry. He is also the Director of the College's Daniel Fox Youth Scholars Institute.

Michelle Niculescu, assistant professor of psychology.

Ph.D., Temple University School of Medicine.

Her teaching interests include behavioral neuroscience, psychopharmacology, general psychology, experimental psychology, and sensory and perceptual processes. Her research interests include the biology and psychology behind drug abuse and addiction. She is a member of the Society for Neuroscience, the Research Society on Alcoholism, the American Psychological Association, and the Association for Psychological Science. She is also the faculty advisor for the LVC chapter of Psi Chi (the National Honor Society in Psychology).

Kerrie D. Smedley, associate professor of psychology.

Ph.D., University of Nebraska-Lincoln.

Her teaching interests include general psychology, life span development, and the psychology of gender. Her research interests include cognitive aging, worry, and depression across the adult years. She is a member of the Association for Psychological Science and the Human Behavior and Evolution Society, and is the faculty advisor for the Psychology Club.

Joe Agliotta, Adjunct Lecturer in Psychology.

M.A., Duquesne University.

His teaching interests include forensic psychology and personality theories, and he is a clinical manager at the VA Medical Center in Lebanon, PA.

Jamie M. Bolton, adjunct lecturer in psychology.

M.S., Millersville University.

Her teaching interests are in clinical psychology, personality theories, psychopathology, social psychology, and child development and education. She is employed as a mobile therapist/behavior specialist consultant for children/adolescents by Philhaven BHRS in Mount Gretna, Pa.

Kimberly Carlson, Adjunct Lecturer in Psychology.

Psy.D., Philadelphia College of Osteopathic Medicine.

Her teaching interests include assessment as well as child development and education. She works as a psychologist at The Milton Hershey School.

Jennifer M. Kitchens, Adjunct Lecturer in Psychology.

M.A., University of Mississippi.

Her teaching interests include statistics & data analysis, and abnormal psychology.

Wayne David Schmoyer, adjunct lecturer in psychology.

Psy.D., Philadelphia College of Osteopathic Medicine.

His teaching interests are in clinical psychology and neuropsychology, and he is the Clinical Director of Riverside Associates, P.C., in Harrisburg, PA.

Richard J. Tushup, adjunct assistant professor of psychology.

Ph.D., University of Delaware.

His teaching interests are in experimental psychology, neuropsychology, health psychology, and abnormal psychology, and works as a staff psychologist at the VA Medical Center in Lebanon, PA.

DEPARTMENT OF RELIGION AND PHILOSOPHY

Many majors in religion or philosophy go on to advanced study in graduate or professional schools and seminaries. Our graduates have pursued a wide variety of careers in education, law, ministry and business. A major in religion or philosophy may be combined with a major or minor in another subject.

Religion Program

The study of religion is designed to give students insight into the meaning of the religious dimension of human experience by exposing them to different cultural beliefs and practices and introducing them to the many methodologies in the comparative study of religion. Course work in religion introduces students to the various historical and contemporary expressions of the diverse religious traditions of humankind. The breadth of courses required by the major and minor are designed to impart upon the student a basic religious literacy, which is key to understanding an increasingly diverse world.

Degree Requirements:

Degree: Bachelor of Arts with a major in religion.

Major: REL 140, 280, 499; one course from 200, 202, or 204; one course from 252, 253, or 255; one course from 250, or 251; and four additional courses in religion, of which at least one must be in the 300-level. Total: 10 courses (30 credits).

Minor: REL 140, 280; one course from 200, 202, or 204; one course from 252, 253, or 255; one course from 250, or 251; and one additional course in religion. Total: 6 courses (18 credits).

Note: To be credited for majors or minors in religion, cross-listed courses must be designated as religion courses at registration.

Courses in Religion (REL):

110. Introduction to Religion. An exploration of the many dimensions of religion as a central human experience: self and meaning, religious expression, religious knowledge, religion in its cultural context, and religion and the natural order. 3 credits.

120. Religion in America. A study of the origin and development of religious expression in America. Special emphasis will be given to issues of religious diversity. Social Diversity Studies. 3 credits.

140. Encountering World Religions. This course examines the beliefs and practices of some of the world's major religious traditions and significant religious movements, focusing predominantly on non-Christian or non-European traditions. The course will be oriented topically (ritual, theology, etc.), geographically (India, the Middle East, etc.), or thematically (religion in the modern world, religious encounters in history, etc.). Foreign Studies. 3 credits.

200. Comparative Scripture. This class aims to introduce students to the study of scripture as a key aspect of religiosity. It will be cross-cultural in nature and familiarize students with a variety of religious texts from several religious traditions. The study of textual religious expression will come from reading both primary sources and theoretical works on the study of scripture. Foreign Studies. 3 credits.

202. Jewish and Christian Scripture. A study of the Hebrew Bible and New Testament and related literature, including its historical and social context. 3 credits.

204. *Hindu Scripture.* A study of the variety of religious literature produced over the last 4000 years that has shaped Hindu thought. Central to the aim of the course is engagement with a variety of types of scripture, including poetic praise of the divine, ritual manuals, epic narrative, and contemporary devotional songs. Foreign Studies. 3 credits.

230. Philosophy of Religion. A study of the issues raised for philosophy by contemporary religious thought. The course examines such topics as faith and reason; faith and culture; and interpretations of revelation, symbolism and religious language. Writing process. 3 credits. [Cross-listed as PHL 230.]

250. *Christianity*. An examination of the history of Christianity and the development of Christian thought through the reading and discussion of primary works in Christian theology and philosophy. Writing process. 3 credits.

251. Judaism. A survey of the development of Judaism and its contemporary teachings and practices. 3 credits.

252. *Hinduism.* An examination of the major religious tradition of India, through its historical development from the oldest culture extent on the subcontinent to the modern world. Students will engage a variety of materials, texts, archaeology, images, and anthropological descriptions in order to gain a broad understanding of the tradition. Foreign Studies. 3 credits.

253. *Buddhism.* A study of the development of Buddhism, including its teaching, practice and influence as one of the great missionary religions. Foreign Studies. 3 credits.

255. *Islam.* This course will introduce students to the historical origins and development of Islam. Foreign Studies. 3 credits.

280. Method and Theory in Religion. The aim of the class is to familiarize students with the methods and theories, which are constitutive of the academic discipline of Religious Studies, and to attune them to the historical context of the development of the study of religion as an academic discipline. Writing Process. 3 credits.

311. Key Issues in Religion. The course focuses on the issues surrounding one central topic in the study of religion. Topics include God, Postmodern Philosophy and Theology, Existentialism and Religion, Religion and Violence, Religious Fundamentalism, The Problem of Evil. Prerequisite: one prior course in religion. Writing Process. 3 credits.

313. The Search for Jesus. This course will examine ancient texts, contemporary commentaries, historical reconstructions, and artistic and literary depictions in its search for Jesus. Writing Process. Disciplinary Perspective. 3 credits.

314. Death, Dying, and Beyond. This course will engage the different religious answers to the fact that humans are mortal. Its aim is to introduce students to the variety of human reactions to the finitude of our corporeal existence and challenge them to en-

gage the variety of responses from a variety of responses from a variety of disciplinary perspectives. Disciplinary perspective. 3 credits

340. One Nation Under God?. This course explores the relationship between religion and politics in the United States. It will include an examination of the role religion played in the founding of our nation's democracy, the important separation between church and state that has been achieved over the course of our nation's history, and the ascendancy of the religious right in recent electoral politics. 3 credits. [Cross-listed as AMS 340.]

499. Senior Seminar. Students will complete a major paper, integrating their research, writing, and analytical skills. Writing Process. 3 credits.

Courses in Sanskrit (SKT):

101, 102. Elementary Sanksrit I. These courses introduce the student to the Sanskrit language, including the devanagari script, pronunciation, basic grammar, and vocabulary. They also offer insights into Indian culture. 3 credits.

Philosophy Program

The study of philosophy directly involves the student in the process of sharpening critical and analytical abilities. Philosophy courses examine some of the greatest perennial questions of values, knowledge, and reality and their relation to human nature.

Degree Requirements:

Degree: Bachelor of Arts with a major in philosophy.

Major: PHL 120, 210, 301 and 311; REL 252 or 253; 2 courses listed as PHL 270 (seminar in the history of philosophy); PHL 499; at least 2 additional courses in philosophy. (30 credits.)

Students may elect to declare a specialization within the major. See the description following the course listings. To receive recognition for a specialization, a student needs to assemble a dossier of three papers that are related to the specialization. One of the papers will be from the Senior Seminar. The student must be able to show at least a B average on the papers overall. Students need to declare a specialization during advising for their final year. They then need to develop a proposal for their specialization by the second week of the senior seminar. Specializations include Philosophy of Religion, Religion and Politics, Political Philosophy, Continental Philosophy, Comparative Religion, and History of Philosophy.

Minor: PHL 120, 210, 270; PHL 301 or 311; 2 additional courses in philosophy. (18 credits.)

Courses in Philosophy (PHL):

110. Introduction to Philosophy. Examination of major philosophical issues and the ways major philosophers have dealt with them. 3 credits.

120. Basic Logic. 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 upon deductive logic. Students are introduced to the elements of symbolic logic as well as to traditional modes of analysis. 3 credits.

210. Ethics. An inquiry into the central problems of values applied to human conduct, with an examination of the responses of major ethical theories to those problems. Writing process. 3 credits.

215. Social Philosophy. An examination of some of the important philosophical issues, including the ethical and valuational, to be found in the social institutions of politics, law, government and religion. Writing process. 3 credits.

222. *American Philosophy.* A survey of philosophical thought in the United States from colonial period to present, with emphasis on the work of Peirce, James, and Dewey. 3 credits. [Cross-listed as AMS 222.]

229. Culture and Conflict in Modern America. An examination of the social, political, economic and cultural upheaval of the 1960s and 1970s in the historical context. Writing process. Social Diversity Studies. 3 credits. [Cross-listed with AMS 229.]

230. Philosophy of Religion. A study of the issues raised for philosophy by contemporary religious thought. The course examines such topics as faith and reason; faith and culture; and interpretations of revelation, symbolism and religious language. Writing Process. 3 credits. [Cross- listed as REL 230.]

270. Seminar in the History of Philosophy. An examination of the major periods in the history of philosophy, this requirement for the major will introduce students to both the figures and the methodology of each time period. The specific focus of the course will vary from semester to semester, rotating through the various historical periods. Seminars will include: Ancient Philosophy, Modern Philosophy, the Enlightenment, 19th Century, 20th Century. Prerequisite: one course in philosophy. Writing process. 3 credits.

301. Key Authors. Intensive studies of individual great philosophers or principal schools. Potential authors include Aristotle, Kant, Nietzsche, etc. Prerequisite: one course in philosophy. Writing Process. 3 credits.

311. Key Issues. An intensive study of individual issues within the discipline of philosophy. Topics will vary from semester to semester. Potential issues include: "Nothing," "Women in Philosophy," "God," "Post-modern Philosophy and Theology," "Existentialism," etc. Prerequisite: one course in philosophy. Writing process. 3 credits.

345. Political Philosophy. Students in this course study the development of Western political thought from Classical Greece to modern times, examining the conceptual evolution of citizenship, civic obligation, and the nature of justice, and exploring the connection between moral and positive law in the western tradition. Prerequisites: sophomore standing or permission of the instructor. Writing process. Disciplinary perspective. 3 credits. [Cross-listed as PSC 345.]

349. The Holocaust: A Case Study in Social Ethics. This course examines the moral responsibility of institutions in German society, 1939–1945, for acquiescing to and perpetrating the state-sanctioned killing of European Jews and others. Writing process. Disciplinary perspective. 3 credits.

499. Senior Seminar. This is an advanced seminar course for senior philosophy majors. Students will complete a major paper, integrating their research, writing, and analytical skills. Writing Process. 3 credits.

Faculty

J. Noel Hubler, professor of philosophy. Chairperson.

Ph.D., The University of Pennsylvania.

He specializes in philosophy of truth and knowledge, with an interest in both contemporary issues and historical perspectives. He has studied cosmology and theories of matter from antiquity to the modern period. He is also the translator of *Ezekiel for the New English Translation of the Septuagint*, Oxford University Press.

Jeffrey W. Robbins, associate professor of religion.

Ph.D., Syracuse University.

His area of specialization is in continental philosophy of religion. His teaching interests include contemporary religious thought, world religions, religion and culture, and film theory. In addition to teaching courses in religion, he regularly teaches in the American Studies program and serves as the director of the college colloquium. He is the author of two books, *Between Faith and Thought: An Essay on the Ontotheological Condition* (2003), and *In Search of a Non-Dogmatic Theology* (2004), and editor of *After the Death of God* (2007), with John D. Caputo and Gianni Vattimo, and The Sleeping Giant Has Awoken: The New Politics of Religion in the United States (2008).

Matthew Sayers, assistant professor of religion.

Ph.D., University of Texas, Austin.

He recently completed his dissertation "Feeding the Ancestors: Ancestor Worship in Ancient Hinduism and Buddhism." His area of specialization is the religions of ancient India as revealed in the Sanskrit texts of the Brahmins and their interlocutors. He is most interested in engaging the debate over the nature of the relationship of ancient Hinduism and Buddhism. He plans to develop the work of his dissertation into a book on the ritual of shraddha, the ancestral rite shared by the religions of ancient India and expand his study of ancestor worship to the later periods of Indian religious history. His teaching interests include the introduction to religion, comparative religion, death and dying, the problem of evil, comparative myth, and the various religious traditions of India, specifically, and Asia more broadly.

Noëlle Vahanian, assistant professor of philosophy.

Ph.D., Syracuse University.

Her area of specialization is at the crossroads of philosophical theology, Continental philosophy, and political theory. Her teaching interests include the history of philosophy, ethics, and philosophy and literature. She is the author of *Theology, Language, and Desire: A Genealogy of the Will to Speak* (2003).

Robert Valgenti, assistant professor of philosophy.

Ph.D., DePaul University.

He specializes in 19th and 20th century continental philosophy, hermeneutics, and Kant studies. His research has focused primarily on the relation of recent Italian philosophy

to the history of German and French continental thought. He is the translator of *Luigi Pareyson's Truth and Interpretation*, forthcoming from SUNY Press.

Paul M. Fullmer, adjunct professor of religion

Ph.D., The Graduate Theological Union

Fullmer specializes in the New Testament with interests in the Gospel of Mark, ancient fiction, and Koine Greek. He is co-author of a series of workbooks entitled *Read Greek by Friday*. His teaching interests include biblical literature, world religions, and freshman writing.

Gary Gates, adjunct instructor in religion.

M.A., Pennsylvania State University.

Gates has travelled the world experiencing world religions first hand, and attended mosques, synagogues, temples, and dojos, Native Indian, and other spiritual ceremonies. He is currently finishing a book called *The Spiritual Symphony*.

David W. Layman, adjunct assistant professor of religion.

Ph.D., Temple University.

A specialist in the history of American religious thought, he teaches a variety of courses, including world religions, religion in America, and history of Christianity.

Jordan Miller, adjunct instructor in religion.

M.A., Boston University.

Miller specializes in contemporary continental philosophy of religion, religion in society and culture, social ethics, and philosophy and social justice. His primary interests include violence, fundamentalism, totality, and political hegemony as they relate to difference. He enjoys teaching radical theology, philosophy and politics, Jewish, Christian, and Muslim mysticism, ritual and symbolic expressions of religion, psychoanalysis and religion, and the work of Emmanuel Levinas.

Christopher Rodkey, adjunct instructor in religion.

Ph.D, Drew University.

Rodkey's primary scholarly focus is in radical Christian theology, and he has interests in the philosophy of religion, bio-medical ethics, religious education, and cultural theory.

Jonathan Terry, adjunct assistant professor in religion.

Ph.D., Temple University.

A specialist in American religious history and religious expression in contemporary American culture.

Warren K.A. Thompson, professor emeritus of philosophy.

M.A., University of Texas.

He teaches a course on the Holocaust.



SOCIAL STUDIES PROGRAM

The College offers a program for students seeking certification to teach social studies in the secondary schools. The program includes three required components: the social studies core, the secondary education core, and a major in history or political science (graduation requirements for these majors are noted in this catalog under the History and Political Science department). There is no major in Social Studies Education. Dr. James H. Broussard is the coordinator of the social studies certification program.

Program Requirements:

Social Studies core courses: ECN 105; H1S 103, 105, 125, 126, 202; PSC 110, 210, 245; PSC 330 (or another appropriate upper-level PSC course approved by the student's advisor); PSY 112, 180; SOC 110, 120 (42 credits).

Secondary Education core courses: Certification candidates must also complete 33 credits in additional required coursework. See the education department section on pages 84–85 for additional information.

Major courses: history (36 credits) or political science (39 credits).

DEPARTMENT OF SOCIOLOGY AND CRIMINAL JUSTICE

Sociology Program

The major in sociology gives students an understanding of human behavior. By examining the social and cultural forces that shape our lives, students gain a richer understanding of themselves and contemporary social issues. Sociology explores how and why people behave as they do as well as the effects of their behavior on others. In an economy that is moving from a manufacturing base to a service orientation, graduates in sociology are prepared to work in fields where an understanding of the dynamics of human relationships is important.

Degree Requirements:

Degree: Bachelor of Arts with a major in sociology.

Major: SOC 110, 311, 321, 499; 21 additional credits in sociology excluding internships (33 credits).

Minor: SOC 110, 311, 321; three elective courses in sociology excluding internships (18 credits). For criminal justice majors, the minor requires: SOC 110, 311, 321 and four electives that do not count toward the criminal justice major.

Criminal Justice Program

The criminal justice major is a multi-disciplinary approach to examining the patterns associated with various crimes, theories of crime causation, victimization and society's response to crime. The components of the criminal justice system, including law enforcement, the courts, and corrections, are analyzed. Study of the criminal justice system includes a critical approach to examining the goals and controversies associated with crime control policies.

Degree Requirements:

Degree: Bachelor of Arts with a major in criminal justice.

Major: SOC 110, 245, 278, 311, 331, 333, 499; PSC 110, 316; 6 credits of internship in Sociology, Political Science or Psychology; two courses from SOC 220, 271, 272, 290/390 (topics in Criminology/Criminal Justice), SOC/PSY 270, PSC 415, or PSY 265. Total credits 39.

Courses in Sociology (SOC):

110. Introduction to Sociology. An introduction to the sociological perspective with a focus on how individual behavior is shaped by the social context. The nature and characteristics of human societies and social life are examined from a perspective known as the "sociological imagination." Topics range from the influence of culture on human behavior, the development of the self, group dynamics, deviance, population, and social inequality. 3 credits.

120. Introduction to Anthropology. Introduction to both physical and cultural anthropology including human evolution, human variation, and cross-cultural analysis and comparison. 3 credits.

160. Traditional and Contemporary Maori Culture. An introduction to the aspects of Maori culture within a fast changing and contemporary mainstream society. (This course is only offered in New Zealand.) 3 credits.

210. Social Problems. Contemporary social problems are examined from a constructionist perspective. Topics selected for study vary according to societal trends, but typically include an examination of social change, poverty, globalization, environmental degradation, deviance, and health. Prerequisite: SOC 110. 3 credits.

220. Forensic Evidence. This course involves the application of scientific methods to solving crimes. The course will explore the many ways in which an offender leaves evidence behind at a crime scene and carries evidence away from that crime scene. A range of topics will be covered including, but not limited to: ballistics, DNA, finger-prints, tire prints, odontology and entomology. Prerequisite: SOC 110. 3 credits.

224. *Native American Experience*. A review of the development of Native American society, culture, politics, and economy from prehistory to the present with special emphasis on the relationships between Native Americans and other immigrants to North America. 3 credits.

226. *Women and Gender Issues.* An examination of women's contributions to the world, their roles in social institutions, and issues arising from their uniqueness and social situations. Topics will include images of women and their writings; biology and health; issues of sexuality and gender identity; and women's roles in the family, religion, education, and in the worlds of work and politics. Prerequisite: SOC 110, 3 credits.

230. Sociology of Marriage and the Family. An overview of family focusing on family structure and interaction. Diverse topics range from sexuality and love, mate selection and dating, parenting, dysfunctional families, and divorce. A historical and cross-cultural approach is employed in addition to a sociological approach. Prerequisite: SOC 110. 3 credits.

240. *Diversity and Intercultural Communication.* The major objective of this course is to help students become aware of the degree to which behavior (including one's own) is culturally determined. As we continue to move toward a global society with increasingly frequent intercultural contacts, we need more than simple factual knowledge about cultural differences; we need a framework for understanding inter-cultural communication and cross-cultural human relations. Through lecture, discussion, simulations, case-studies, role-plays and games, students will learn the inter-cultural communication framework and the skills necessary to make them feel comfortable and communicate effectively with people of any culture and in any situation involving a group of diverse backgrounds. Prerequisite: SOC 110. 3 credits.

245. Crime and Criminals. An examination of different types of crime including a broad range of violent crimes and property crimes. Profiling and criminal typologies will be explored. Specific crimes such as arson, kidnapping, stalking, and homicide will be studied. Case studies of prototypical offenders will be included. Prerequisite: SOC 110. 3 credits.



261. *Perspectives on Aging.* Introduction to the study of aging from a multidisciplinary perspective. Topics include the biology of aging, demographic trends in aging, and aging impacts on social institutions and society. Policies on aging are reviewed. Pre-requisite: SOC 110. 3 credits.

262. Race, Minorities and Discrimination. An examination of the patterns of structured inequality in American society, including a variety of minority, racial, and ethnic groups. Prerequisite: SOC 110. 3 credits.

270. *Forensic Psychology.* This course will focus on three critical areas that fall under the umbrella of forensic psychology. First, students will be introduced to the area of legal psychology, including applied empirical research on issues important to the legal system such as eyewitness accuracy, police selection, jury decision making, and legal assumptions about human behavior relevant to the rights of defendants, victims, children, and consumers of mental health services. Second, the area of psychological jurisprudence will be explored by studying efforts to develop a philosophy of law and justice based on psychological values. Third, students will be introduced to the concepts generally thought of as forensic psychology, such as criminal profiling, insanity defense, competence to stand trial, and child custody decisions. Prerequisite: SOC 110 or PSY 111. 3 credits. [Cross-listed as PSY 270.]

271. *Child Abuse.* The study and analysis of child abuse in its various expressions with additional focus on physical and sexual abuse. Emphasis will be on models and theories of causation, dynamics, treatment and research. Prerequisite: SOC 110. 3 credits.

272. Substance Abuse. An examination of the problems associated with substance abuse including a study of the prevalent myths concerning substance abuse, an exploration of the causes of substance abuse and an exploration of how it affects the individual, the family and society as a whole. In addition, the course will examine current methods of intervention and treatment. Prerequisites: SOC 110. 3 credits.

278. Juvenile Justice. An examination of the causes and effects of juvenile delinquency, the juvenile justice system and treatment programs for the juvenile offender. Prerequisite: SOC 110. 3 credits.

280. Sexuality and Society. Study of human sexuality from psychosocial and cultural perspectives. The course will include an examination of such topics as developmental sexuality, gender roles, sexual communication, sexual orientation, coercive sex, sexually transmitted diseases, HIV, and religious and ethical perspectives on sexuality. Prerequisite: SOC 110. 3 credits.

311. Research Methods in Sociology. Experiential-based course covering fundamental concepts and problems in social science research. Topics include ethics or research on human behavior, design, measurement, sampling, and interviewing and questionnaire construction. There is an emphasis on four research methods: available data, survey research, experiments, and field research. Prerequisite: SOC 110, plus 9 credits of 200 level or above of Sociology, or permission. 3 credits.

321. Social Theory. An intensive examination of the major sociological theorists and movements. Prerequisite: SOC 110, plus 6 credits of 200-level or above of Sociology or permission. 3 credits.

324. Medical Sociology. An examination of the societal bases of health, illness and health care. The course will include an examination of the three components of medicine: the patient, the medical professional and the health care organization. Specific topics will include: the role of the patient; doctor-patient relationships; the socialization of medical professionals; the hospital as a complex organization, cross-cultural comparisons of health care and current topics of concern such as the AIDS epidemic, new technologies and social response to the terminally ill patient. Writing process. Prerequisite: SOC 110, plus 6 credits of 200-level or above of Sociology or permission. Writing process. 3 credits.

325. Urban Sociology. The city provides a setting for cultural events, commerce, innovative services, and the arts. The city is also associated with crime, poverty, and environmental problems. Throughout the course a variety of approaches to urban life and change will be considered by combining theories of the urban world, empirical study, and urban field experience. Topics include city growth and decline, urban lifestyles, and the impact of city life on individuals, families, neighborhoods, and government. Prerequisite: SOC 110, plus 9 credits of 200-level or above of Sociology, or permission. 3 credits.

331. Criminology. An examination of the causes of crime. The question of whether or not such victimless crimes such as pornography, prostitution and drug use should be

considered crimes is explored. This is primarily a theory course for criminal justice majors. Prerequisite: SOC 110 and SOC 245, plus 6 credits of 200 level or above of Sociology, and junior standing, or permission. Writing process. 3 credits.

333. Criminal Justice. A sociological, historical, and philosophical examination of punishment and the criminal justice system. Rights of the accused, victimology, prisons, and the death penalty are studied. Prerequisite: SOC 110, 245, plus 6 credits of 200 level or above of sociology, or permission. 3 credits.

340. Group Structure and Dynamics. An overview of the theory and research on small group organization and process including issues related to leadership, effective communication in groups, conformity and influence. Application of basic principles to practical situations. Exercises designed to improve group leadership and participation skills. Prerequisite: SOC 110, junior standing or permission. 3 credits.

370. *Adoption.* This course will focus on populations involved in adoption, including birth parents, adoptees, foster and adoptive families and agencies, in both domestic and transnational adoptions. Special consideration will be given to recent policies and vehicles that have been put into place to facilitate the permanent placement of children. A consideration of ethics in adoption will be a central theme of the course. An examination of cultural, economic and policy factors in countries involved in transnational adoption will be included. The health (both physical and psychological) and cultural issues of adoptees and services that address these will be addressed. Prerequisite: SOC 110 plus 6 hours of 200-level or above sociology courses or permission. 3 credits.

382. Sociology of the Mass Media. Seminar on how society shapes the mass media and the effects of the mass media on individuals and society. Topics include propaganda, television violence and aggression, and advertising. Special attention is given to values and images portrayed by the mass media. Prerequisite: SOC 110, 6 credits of sociology, junior standing, or permission. Writing process. 3 credits.

400. *Internship.* Field experience for sociology or criminal justice majors. Seniors only. Prerequisites for criminal justice majors: SOC 245, 331, and 333. Prerequisites for sociology majors: SOC 110, SOC 311, and 321 or 331. Seniors only or permission. 3–12 credits.

499. Senior Seminar. A critical analysis of selected themes and issues in contemporary sociology. Topics may vary. This course is conducted as a seminar requiring extensive student participation. Prerequisite: SOC 110 plus SOC 311, 321, or 331 and 9 additional credits in sociology. This course is for senior sociology majors and criminal justice majors only (or permission). Writing process. 3 credits.

Faculty

Sharon O. Arnold, associate professor of sociology. Chairperson.

M.A. University of Akron.

Among her teaching interests are adoption, medical sociology and intercultural communication. Her research interests include the development of a cross-cultural framework for developing intercultural competence in the fields of medicine, business, education, law enforcement, and social work/counseling. Also, she is doing research in culture and re-entry shock that persons experience who spend significant time abroad.

Marianne Goodfellow, associate professor of sociology.

Ph.D., The Pennsylvania State University.

Goodfellow teaches an array of courses including Introduction to Sociology, Social Problems, Sociology of the Family, Women and Gender Issues, Urban Sociology, and Research Methods. Her research has focused on issues of aging, rural homeless services, domestic violence, pedagogy, and issues related to alcohol use and DUI.

Carolyn R. Hanes, professor of sociology.

Ph.D., University of New Hampshire.

Hanes' teaching and scholarly interests are in the area of criminology and criminal justice. She has worked to integrate teaching, scholarly activities and community involvement throughout her professional career. Recently, she has been actively engaged in collaborative research with department majors and the Lebanon County District Attorney's Office in order to assess the efficacy of the new DUI Specialty Court.

Daniel Simpkins, lecturer in sociology.

Ph.D., University of North Carolina at Chapel Hill.

Simpkins teaches Introduction to Anthropology, Race, Minorities, and Discrimination, Introduction to Forensic Evidence, and The Native American Experience. His specialty area is in United States archaeology. His current research interests include ethnohistory, cultural ecology and evolution, and the study of complex systems.

John Gibble, adjunct instructor of sociology.

M.A., Ohio University

Gibble teaches classes of Introduction to Sociology. After applying his sociological knowledge for 35 years with the Pa. Department of Public Welfare in various capacities, he uses those experiences to show the relevance of sociology to whatever professional careers students may enter.

GRADUATE ACADEMIC PROGRAMS

Lebanon Valley College offers four graduate programs. These are the Master of Business Administration (MBA), the Master of Music Education (MME), the Master of Science Education (MSE), and the Doctor of Physical Therapy (DPT) programs.

The Master of Business Administration Program is a multi-disciplinary program designed to prepare graduates for managerial responsibilities at various levels of business organizations. This program provides a strong theoretical foundation as well as operational expertise in the areas of finance, leadership, marketing, international business, and operations management.

LVC also offers an MBA with a concentration in healthcare management. The MBA with a concentration in healthcare management will position graduating students to assume greater roles and authority within the healthcare delivery system, and will allow graduates to be champions and advocates for continuous quality and cost improvement in all aspects of the healthcare system. This program consists of eight MBA courses and four healthcare courses. The eight MBA courses will give students a strong business foundation. The four healthcare courses will be structured around the Business Performance Management framework (topics that focus on the issues of strategic planning, operational planning, performance measurement, and performance improvement); and the Balanced Scorecard (the establishment of performance metrics across four key perspectives: financial, customer, internal process, and learning and development).

The Master of Music Education Program is designed to be completed over the course of three summers. Addressing the graduate education needs of K–12 music teachers (the program is accredited by the National Association of Schools of Music), the curriculum includes experiences in foundations and principles of music education, research methods, music technology, and the psychology of music learning plus several elective choices.

The Master of Science Education Program employs a collaborative learning approach with classes designed to apply to any age range, from K-12. High school teachers work alongside middle school and elementary teachers, with each benefiting from the experience and insight of their colleagues. This learning environment helps MSE students to prepare their own students for success in state and national science assessments.

The Doctor of Physical Therapy Program is a six-year program of study for students who will receive a preliminary baccalaureate degree in health science after four years of course work.

Graduate Program Policies and Procedures

Academic Advising and Registration

Graduate students should contact their academic advisors prior to class registration. The advisor will develop a graduation plan with the student. All course registrations require the advisor's approval.

Veteran Registration

The College meets all of the criteria of Veterans Education under the provisions of Title 38, United States Code, Section 3675. The graduate programs have been approved

for payment assistance. Veterans who are eligible to receive educational benefits must report their enrollment to the Financial Aid Office as soon as they register for each semester or summer session. The Financial Aid office will then submit certification to the Department of Veterans Affairs.

Veterans receiving EAP and/or FTA benefits are responsible for applying for these benefits through their unit of assignment prior to the start of each semester or summer session and for submitting all necessary forms to the Financial Aid Office.

Veterans must notify the School Certifying Official, immediately, if they change the number of credits for which they are enrolled, withdraw, or request a leave of absence. Failure to do so may result in a charge to the student from the VA for overpayment of benefits. Veterans receiving education benefits must verify their attendance each month, no earlier than the last day of each month, to the VA on-line via WAVE. Students can access this site by going to **www.gibill.va.gov**. (Veterans receiving vocational rehabil-itation benefits do not need to verify their attendance).

Veterans who are attending Lebanon Valley College and have never used VA edueation benefits before should go on-line to **www.gibill.va.gov** and fill out Form 22-1990. Dependents should fill out form 22-5490 (dependents will need the veteran's file number). This form should be submitted on-line through the GI Bill website and then printed out and either mailed or faxed to the Financial Aid Office at Lebanon Valley College.

Veterans who have used education benefits before and will either be changing their attendance to Lebanon Valley College and/or changing their program of study should submit a signed statement to the Financial Aid Office stating this change. Alternatively, a copy of form 22-1995 or 22-5495 (for dependents) can be filled out and returned to the Financial Aid Office. This form should not be submitted to the VA. It is for the student's school file.

Students eligible for veterans benefits who remain on academic probation for two consecutive semesters must be reported to the Department of Veterans Affairs. Veterans with questions about the College, or their status with the College, should contact the Financial Aid Office.

Transfer Credit

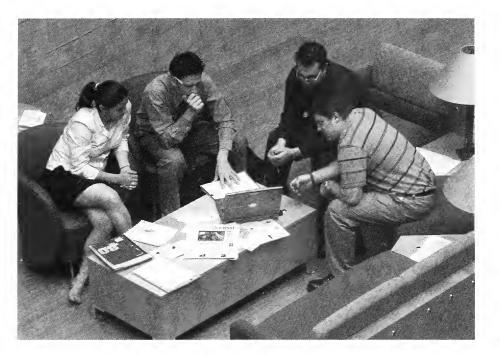
A maximum of 9 credits (a maximum of 6 core credits) may be transferred from another graduate program with the approval of the registrar and program director/coordinator of the MBA, MSE, and MME. No transfer credit shall be accepted if the grade earned at another institution was less than B (a grade of B- or lower will not be accepted). Students wishing to transfer credits may be asked to submit course outline, textbook used, and any reading materials, so proper credit may be given. No graduate transfer credit is accepted in the DPT program.

Concurrent Courses

A student enrolled for a graduate degree may not take courses concurrently at another educational institution without prior consent of the academic advisor and the registrar.

Grading

Student work is graded A, A–, B+, B, B–, C+, C and F. Candidates must maintain a grade point average of 3.00 with a maximum of two C grades in the program.



In addition, the symbols I, IP, and W are used. I indicates that the work is incomplete (certain required work postponed by the student for substantial reason with the prior consent of the instructor) but otherwise satisfactory. This work must be completed within the first four weeks of the end of the course or the I will be converted to an F. Instructors may set an earlier deadline. Appeals for an extension of the incomplete grade past the four-week period must be presented to the program director prior to the incomplete due date. IP (in progress) is a temporary grade for certain courses that have not concluded by the end of the semester. W indicates withdrawal from a course through the tenth week of full-semester classes (or up to the first two-thirds of course meeting during the summer or for an abbreviated period during fall and spring semesters).

MSE 830, MME 805/806, and some PHT courses (see Doctor of Physical Therapy section) are graded pass/fail.

Review Procedure

Every student's academic progress shall be reviewed at the end of each academic period by the academic advisor. Any student whose average falls below 3.00 or who earns a C or F in three or more credit hours may be placed on academic probation. A student on academic probation may be required to retake courses or correct other academic deficiencies and must achieve a 3.00 cumulative average within two semesters of being placed on probation. A student may repeat a maximum of two graduate courses with any given course being repeated only once. Students who fail to correct deficiencies may be dropped from the program. A student may appeal any decision of the Office of Graduate Studies and Continuing Education to the Vice President of Academic Affairs and Dean of the Faculty.

Course Withdrawal and Tuition Refund

Any MBA, MME, or MSE student who withdraws from courses for which he or she is registered must notify the Graduate Studies and Continuing Education Office. The effective date of withdrawal is the date on which the student notifies the office. Failure to give notice of withdrawal will result in a grade of F. Notifying the instructor does not constitute official withdrawal. A refund schedule based on official withdrawal date is available on the GS and CE web pages.

Time Restriction

The maximum time for completion of a graduate program is seven years from the date of the admission letter. Students who have not earned the graduate degree during this period shall have their academic standing reviewed and may be asked to meet additional requirements in order to graduate.

Academic Honesty

Students are expected to uphold the principles of academic honesty. Academic dishonesty will not be tolerated. For the first academic dishonesty offense, failure in the course is mandatory, and the faculty member is required to inform the program director/coordinator in writing. A letter of warning shall be sent to the student by the program director/coordinator explaining the consequences and the right of appeal. For the second offense, failure in the course and expulsion from the graduate program and College are mandatory.

Privacy of Student Records

In accordance with the Family Educational Rights and Privacy Act of 1974 (P.L. 39-380) Lebanon Valley College releases no student education records without written consent and request of the student or as prescribed by the law. Each student has access to his or her education records with exclusions only as specified by the law.

Financial Aid

Students may participate in the Stafford Loan Program. Graduate students should contact the Financial Aid Office at 717-867-6181 to discuss financial aid eligibility.

Employee Tuition Reimbursement

Students are encouraged to inquire about tuition reimbursement programs at their places of employment. Most employers of current students provide education subsidies of 50–100 percent of tuition. Students who participate in an employer reimbursement program may be eligible for the deferred tuition option. Some employers authorize the College to bill them directly. In this case, students must present billing authorization when they register. Information on direct bill and deferred tuition options can be found on the Graduate Studies and Continuing Education web pages.

Withdrawal from Program and College and Readmission

To withdraw from Lebanon Valley College, a graduate student must complete an official withdrawal form obtained from the academic advisor. To apply for readmission, a graduate student must have the written approval of the director of graduate studies and continuing education.

MASTER OF BUSINESS ADMINISTRATION

The MBA Program at Lebanon Valley College is a unique program that combines liberal arts studies with career preparation in the field of business administration. It is a part-time program. The multi-disciplinary nature of the curriculum includes standard MBA-level courses along with exposure to courses in executive communications, ethical leadership, and organizational behavior.

MBA Admissions

Candidates for admission must have a bachelor's degree from an accredited college or university as well as the interest, aptitude, and ability to undertake graduate studies. All candidates must provide official transcripts of undergraduate and graduate work, a completed application, and a current resume. Applicants should have at least three years of substantial business or professional experience. Applicants should have achieved an undergraduate GPA of at least 3.25 or have completed advanced degrees at the master's or doctoral level. Those applicants who have achieved an undergraduate GPA below 3.25 must provide two letters of recommendation from immediate supervisors and a personal statement of how the applicant will benefit from and contribute to the MBA Program. All candidates must schedule a personal interview with the director of the MBA program.

Graduate admission is on a rolling basis; action usually will be taken within two weeks of receipt of all required documentation. Qualified candidates may register for up to two graduate classes while completing the application process. The MBA program at LVC is a part-time program. A maximum of six credits may be taken during each semester.

Graduation Requirements

A candidate for the MBA degree must complete a minimum of 36 credits, of which 27 must be earned at Lebanon Valley College. There are nine required core courses (27 credits) and three electives of the student's choice (9 credits) for a total of 36 credits. A candidate must achieve at least a 3.00 cumulative average with a maximum of two C's within the 36 graduate credits to be certified for graduation.

Prerequisites

Prospective students must demonstrate that they have command of the undergraduate common body of knowledge, including finance, accounting, and working knowledge of Microsoft Word, Excel, and Powerpoint. Prerequisites can be satisfied by the completion of undergraduate courses, by a waiver for knowledge gained through life experience or by examination.

Degree: Master of Business Administration.

Graduate Core: MBA 805, 810, 815, 825, 840, 845, 860, 885, 895 (27 credits) and three from the following MBA 801, 850, 855, 865, 870, 875, 880, 890, special topics (9 credits). Total of 36 credits.

Healthcare Management Concentration: MBA 801, 802, 803, 804, MBA 805, 810, 815, 825, 860, 885, 895 (33 credits) and one from the following MBA 850, 855, 865, 870, 875, 880, 890, special topics (3 credits). Total of 36 credits.

MBA Courses:

MBA 801. Introduction to Healthcare Management. The course examines the history of medicine; healthcare delivery systems such as acute hospital care, chronic care, outpatient systems, and long term care; healthcare professions and medical education; U.S. and world healthcare systems; health insurance, healthcare financing and payers; employee based coverage compared to government coverage; public health; and healthcare technology and innovation and its cost. The course provides an introduction to management across functions in a healthcare organization. 3 credits.

MBA 802. Ethical, Legal, and Regulatory Issues in Healthcare. This course introduces students to the legal, regulatory, and ethical issues they are likely to face in managing a healthcare organization. With the increasing intersection between healthcare delivery and law, healthcare managers will encounter a wide range of legal and regulatory issues, including patients' rights, antitrust, institutional liability, privacy, security, and reimbursement. It is thus important for students to be familiar with basic legal principles affecting how healthcare institutions operate, how legal rules and doctrine are formulated, and how to interact effectively with attorneys. Prerequisite: MBA 801. 3 credits.

MBA 803. The Economics and Financing of Healthcare. This course examines the economics of the healthcare ecosystem in the U.S., the approach to funding healthcare services and healthcare research, the dependencies between sectors, and trends in healthcare service productivity and cost. It also compares the current U.S. healthcare ecosystem to that of several other countries, and recent proposals to change healthcare financing, improve healthcare services productivity, and influence decisions by providers and patients. Students will learn how basic economic and finance concepts, principles, and theories can be used to think about and illuminate various healthcare issues, and how these concepts and principles can be applied to balanced scorecard metrics. The course culminates with an in-depth analysis of the structure, conduct, and performance of the markets for physician, hospital, pharmaceutical, and long-term care services. Prerequisites: MBA 801, 802. 3 credits.

MBA 804. Healthcare Operations Management. The course will provide the student with the quantitative tools and qualitative concepts to be applied to problems and case studies related to the management of healthcare organizations. Topics include an overview of transformations, processes and systems, quality management, human resources, scheduling and control, and materials management. Emphasis is on mathematical foundations and quantitative techniques of management science/operations research (MS/OR), related qualitative MS/OR tools and applications, the priority/capacity organizational concepts, and the strategy underlying operations. The course introduces appropriate computer software. Prerequisites: MBA 801, MBA 802. 3 credits.

MBA 805. Financial Policy. A quantitative and qualitative approach to managerial problems of short and long term financing, asset management, and divided policies, to advance the understanding of financial concepts, policies, theories and tools to make investment and financing decisions. Emphasis placed on the application of experience to class discussion based on the use of *The Wall Street Journal*. The primary objective of this course is to be able to evaluate investment opportunities, understand the various sources of financing and its impact on the firm's structure. 3 credits.

MBA 810. Organizational Behavior. Utilizing an experiential case study method, this course surveys the evolution of theory and research in the areas of organization behavior. Learning topics include motivation theory, group dynamics, leadership, decision-making, conflict transformation, emotional intelligence and communication. The course affirms a systemic perspective and approach to organizational behavior, a systematic presentation of theory and research in areas of organizational behavior, including motivation, group dynamics, leadership, decision-making, organization change, career planning, and communication. 3 credits.

MBA 815. Marketing Management. A focus on issues in the interplay between marketing and society including the ethics of selling, advertising, marketing research, and the social responsibility of marketers. An understanding of the role of marketing in businesses and not-for-profit organizations and its importance for individuals within a society. Discover how marketing interfaces with domestic and global environments. Understand consumer and organizational buyer behavior for identifying market opportunities, segmenting and targeting markets, and developing positioning strategies. 3 credits.

MBA 825. Executive Communications. Executive Communications focuses on the communication skills that managers at all levels must acquire, develop, and demonstrate in order to achieve success in the workplace. The course combines communication theory with practical techniques for conveying information, for motivating associates and enhancing teamwork via the spoken and written word, and for exhibiting leadership through language at the interpersonal, small group, and organizational levels. Organizational communications skills, emphasizing writing, speaking and listening techniques, and interpersonal communication are included. Must be one of the first 3 courses taken in the MBA program. 3 credits.

MBA 840. Operations Management I. Surveys mathematical foundations and fundamental principles and theories of models used in management science, quantitative techniques of management science/operations research (MS/OR), related MS/OR tools and applications, the priority/capacity organizational concepts, and the strategy underlying operations. This course includes a review of probability and statistical concepts that will be necessary to understand quantitative techniques and systems approaches to the management of production, service, and retail organizations. A philosophy of problem solving will be introduced as well as system thinking and the use of models in problem solving. Emphasis is placed on analyzing and critically evaluating ideas, arguments, and points of view to make "real life" business decisions. Decisions are made with consideration of the resources available, costs (both internal and external), and the impact on all interested parties. Topics include supply chain management and control of inventory, forecasting, and quality management. Emphasis is on mathematical foundations and introduces appropriate computer software. 3 credits.

MBA 845. Operations Management II. This course builds on the fundamentals introduced in MBA 840, with the same emphasis on analyzing and critically evaluating ideas, arguments, and points of view to make "real life" business decisions. Decisions are made with consideration of the resources available, costs (both internal and external), and the impact on all interested parties. More involved quantitative models and tools are used, including queuing models, simulations, and linear programming applications. Decisions regarding the best use of limited resources, staffing requirements, and facility location/layout are featured. Emphasis is on mathematical foundations and introduces appropriate computer software. Prerequisite: MBA 840. 3 credits.

MBA 850. Human Resource Management. A survey of personnel management activities in organizations including exploration of recent developments in the field of human resource management. Topics include human resource planning, recruitment, selection, training, equal employment opportunity, performance appraisal, discipline, career planning, compensation, safety, and health. Instruction method includes case study, readings, and classroom lecture. 3 credits.

MBA 855. Legal Environment of Business. Legal concepts and principles important to business decision making including employment law, labor-management relations and relevant legislation, tax consequences of business transactions, government regulation, contract law, and application of the Uniform Commercial Code to business transactions. Case study, readings, and lecture. 3 credits.

MBA 860. International Business Management. The theories, concepts, practices, and techniques of conducting business in foreign countries. The strategic issues, the operational practices, and the governmental relations of multinational companies are analyzed through the use of case studies, videos, lectures, the development of an international strategic plan, and an international trade game. Topics include: economic, political, and cultural integration; trade restrictions and barriers; overseas investment and financing; entry into foreign markets and marketing strategies. 3 credits.

MBA 865. Entrepreneurship. Entrepreneurship, intrapreneurship, small business, and acquisitions. Special attention to entrepreneurial behavior, sources of funding and actual case studies in the development of new enterprises. 3 credits.

MBA 870. Labor Management Relations. Directed primarily to the understanding of the issues and alternatives arising out of the work place. The course provides both an overview of what has been identified as industrial relations as well as familiarity with the tools used by its practitioners. Students will study negotiation, administration, wage/fringe issues, and contents of labor agreements. 3 credits.

MBA 875. Managerial Decision Making. Provides students previously exposed to managerial accounting principles with the essential tools and strategies managers need to develop data for making decisions related to pricing strategy; product expansion, discontinuance or redesign; performance measurement; resource allocation and management; merger and acquisition planning; and other types of managerial decisions. Stresses ways to avoid mistakes that result when internal decision making is based on data developed for external financial reporting. Business topics covered include financial statement analysis, responsibility accounting, Economic Value Added (EVA), and Activity Based Costing (ABC). 3 credits.

MBA 880. Investments and Portfolio Management. Reviews the tools essential for sound money management. Considers the goals of the investor with respect to risk exposure, tax environment, liquidity needs, and appreciation versus income potentials. Strategies will be developed to satisfy these objectives. Mathematical models of port-

folio selection to help reduce risk through diversification will be developed. Special attention will be paid to the theories of determinants of asset prices, including the capital-asset pricing model. Completion of MBA 805 is strongly suggested. 3 credits.

MBA 885. Ethical Leadership. A focus on the examination of leadership theories and concepts and how to recognize, analyze, and resolve ethical dilemmas in our leadership roles. Through the use of case studies and self analysis, students will assess: corporate social responsibility, the public and private morality of leaders, the moral obligations of leaders and followers, the ways in which leaders shape the moral environment of institutions, the temptations of power, and leader-follower interaction. 3 credits.

MBA 890. Special Topics. This course option allows for the exploration of current topics in the field of business management. Topics include Risk Management, Business and Technology, Supply Chain Management, Project Management, International Trade Policy, and Health Care Management. 3 credits.

MBA 895. Strategic Management. Strategic Management is a capstone course to be taken near or at the completion of the MBA program. Strategic Management is designed to tie together and integrate all the business courses taken by challenging students to look at a total organization and what it must do to compete successfully in its environment. This course includes an examination of the many principles and techniques used today in strategy formation and implementation. Case studies will be used extensively throughout the course to enhance understanding of strategy concepts and practices. Also included is the strategic management of large and small business entities, including the formulation and evaluation of missions, strategies, objectives, and policies. Historical and current situations are discussed. Cases are widely used and outside research is required. Prerequisite: 24 hours of graduate credit. 3 credits.

MBA Administration and Resident Faculty

Jennifer Easter, director.

M.P.H., UCLA School of Public Health; M.B.A., UCLA Anderson School of Management.

Easter oversees the program, advises all MBA students, and teaches in the healthcare concentration.

Joel A. Kline, associate professor of digital communications. *M.J.P.R.A., Temple University.* Kline teaches the special topics course e-business.

David Setley, assistant professor of business administration.

D.B.A., Nova Southeastern University.

Setley teaches executive leadership and corporate and organizational ethics

MASTER OF MUSIC EDUCATION

The Master of Music Education (MME) Program is designed to meet the needs of area K-12 music educators. It is offered in response to a significant regional need met by on- and off-campus expertise and a shared interest in improving the quality of music education in this part of the Commonwealth. It is a summer only program in which a student can, with careful advising, complete the coursework in three summers and continue work on the capstone experience throughout the academic year.

MME Admissions

While prior teaching experience is not a requirement for entrance into this degree program, individuals considering pursuit of a master's degree in music education should plan on teaching one to three years prior to initial enrollment or before completing the degree. It is the conviction of this faculty that graduate study will be more meaningful to the individual if he or she has first gained experience in the field.

All candidates must have a bachelor's degree in music from a regionally accredited college or university and submit an official transcript with the application. Any graduate courses to be considered for transfer (up to nine credits, a maximum of 6 credits in the core) also require an official transcript sent by the respective colleges or universities to the Office of Graduate Studies and Continuing Education. Priority for core courses will be given to students matriculated into the MME program.

All candidates must submit the application form and required application fee with a current resume and a personal written statement (one page) indicating why they wish to pursue this degree. All candidates must submit a copy of a current Teaching Certificate in Music with the application.

All candidates must submit three letters of recommendation with the application, which address the candidate's readiness for graduate study.

Graduate admissions are on a rolling basis; action will be taken promptly after all paperwork has been received and evaluated.

Degree Requirements

Every MME candidate must complete 30 graduate credits, 21 of which must be earned at Lebanon Valley College. Of a possible 9 credits in transfer work, only 3 credits may be counted in the core of the MME program. There are four required core courses (12 credits). The capstone experience includes either a project or a thesis (3 credits). The other 15 credits will be selected from among several elective opportunities. Courses in the Lebanon Valley College MME Program are taught on the Annville campus.

Degree: Master of Music Education

Core Courses: MME 801, 802, 803, 804 (12 credits), and 805 (project) or 806 (thesis).

MME Courses:

MME 801. Foundations of Music Education. A consideration of philosophical and historical issues in music education and their implications for developing curricular and instructional approaches to the field. A core course. 3 credits.

MME 802. Research Methods in Music Education. A study in the organization, presentation, interpretation, and documentation of research that makes use of encyclopedias, indices, databases, and other aids. A core course. 3 credits.

MME 803. Technology for Music Educators. An exploration of how technology can enhance the music learning process. This course examines what is involved in planning, configuring, and teaching various technology systems and applications so as to facilitate creative interaction with musical experiences. A core course. 3 credits.

MME 804. Psychology of Music Learning. An investigation and discussion of theories of learning as they relate to the teaching of music. This course includes the study of specific teaching strategies and the nature of musical response. A core course. 3 credits.

MME 805. Project. 3 credits, or

MME 806. Thesis. 3 credits.

MME 830. Private Applied. 1 credit. (Up to a maximum of 3 elective credits in the program.)

MME 890. Elective courses will be offered as special topics courses, (e.g., Teaching Choral Music, Teaching General Music, Teaching Instrumental Music, Theory for Teaching, Graduate Music History Seminar, Music in Early Childhood, Music and the Exceptional Child, Statistics for the Music Researcher, Conducting, Arranging [band scoring, choral arranging, jazz arranging]).

MME Administration and Resident Faculty

Marian T. Dura, director of the MME program. *Ph.D., Northwestern University.*

Christopher J. Heffner, assistant professor of instrumental music education, director of bands.

Ph.D., University of Florida.

Barry R. Hill, professor of music, director of the music recording technology program, director of the Center for Excellence in Teaching and Learning (CETL). *D.Ed., The Pennsylvania State University.*

Mary L. Lemons, associate professor of music, director of the music education program.

Ed.D., University of Illinois at Urbana-Champaign.

Mark L. Mecham, professor of music. D.M.A., University of Illinois at Urbana-Champaign.

Jeff Snyder, associate professor of music, director of the music industry program. *M.S., Kutztown University.*

MASTER OF SCIENCE EDUCATION

Students enrolled in this program will concentrate on the principles and content of science as well as on the appropriate teaching strategies to convey these concepts to their students. The courses are designed to maximize the opportunity for using hands-on, minds-on science processing skills needed by students in the 21st century. This learning environment helps MSE students to prepare their own students for success on all forms of state and national science assessments. The program will culminate with the satisfactory completion of a research project in science education.

MSE Admissions

To qualify for admission to the Master of Science Education Program, the applicant must fulfill the following requirements:

- An applicant must hold a baccalaureate degree from a regionally accredited instittion and must arrange to have official transcripts submitted for each undergraduate institution attended. If transfer credits are to be considered, transcripts from graduate courses must also be requested by the applicant.
- An applicant should hold a valid teaching certificate. Otherwise, applicants may be considered for entrance after meeting with the MSE coordinator.
- An applicant must have achieved a 3.0 quality point average (QPA) on a four point scale for the baccalaureate degree. An applicant with less than the 3.0 QPA may be admitted with provisional status pending satisfactory completion of six semester hours of graduate study with a 3.0 or above.
- An applicant must submit three letters of recommendation in support of their admission to the graduate program.
- An applicant must submit a personal statement that addresses their career goals and reason for pursuing a graduate degree in science education.

Degree Requirements

A candidate for the MSE degree must complete a minimum of 30 credits, of which 21 must be earned at Lebanon Valley College. Only 6 credits may be transferred into the core. There are eight core courses (24 credits), one elective of the student's choice (3 credits), and an independent research project (3 credits), for a total of 30 credits. A candidate must achieve at least a 3.00 cumulative average to be certified for graduation. *Degree:* Master of Science Education.

Graduate Core: MSE 800, 801, 802, 803, 805, 809, 810, 829, 830 and one of any elective offered. Total of 30 credits.

MSE Courses:

MSE 800. Introduction to Science in the Classroom. This is an introduction to the content and methodology of science instruction as it relates to hands-on, minds-on, science-process skills appropriate for school classrooms. This course showcases constructivist strategies, which will be used in subsequent classes. 3 credits.

MSE 801. Principles of Biology and Life Science. This course addresses biology and life science concepts prevalent in virtually all science curricula, as well as those set forth in the National Science Education Standards. Students engage in the use of sci-

entific methods to address topics typically taught in biology and life science courses. 3 credits.

MSE 802. Principles of Chemistry. This course utilizes concepts in chemistry to make connections to common substances. Establishing chemistry as an integral part of every-day life, as well as discoveries made by chance, will make this topic relevant to all students. 3 credits.

MSE 803. Principles of Physics and Physical Science. Utilize hands-on experimental methods to gain confidence and experience with inquiry-based learning of physics. Topics include motion, heat, light, electricity, and magnetism. 3 credits.

MSE 805. Principles of Earth and Space Science. The interaction and effects of geology, meteorology and space exploration will be explored in this course. Field study is combined with experimental inquiries from exemplary curricula to illustrate critical connections of physics, chemistry, and biology with the earth sciences. 3 credits.

MSE 809. Curriculum Design 1. This course will address the question: "How does a standards driven science curriculum enhance student learning that is focused on science literacy?" Focusing on curriculum design using a "backward design" model, students will identify the desired results of a science curriculum based on the National Science Education Standards, the PA Academic Standards for Science and Technology, the PA Academic Standards for Environment and Ecology and the PA assessment anchors. Students will explore research-based rationale for reform in science education and address the use of statistics in analyzing science education research as well as local, state, and national assessments. Enduring understandings, content worthy of understanding and the development of essential questions for science courses will be addressed. 3 credits.

MSE 810. Curriculum Design II. This course is a continuation of Curriculum Design I and must be scheduled for the semester following Curriculum Design I. After identifying the desired results of a science curriculum, students will determine acceptable and appropriate assessments that probe evidence of student understanding. A variety of assessment techniques with a focus on differentiated and authentic performance-based assessments will be presented. Finally, using clearly identifiable results and appropriate evidence of understanding, students will plan differentiated learning experiences and instruction to develop student understanding. Prerequisite: MSE 809. 3 credits!

MSE 820. Seminar. This course will permit some flexibility to explore current topics in elementary/middle school education as they arise. Seminar courses permit special topics to be included in the course of study. Recent offerings include literacy in science, forensics, and multimedia science. In addition, certain transfer courses may be valid for degree accreditation but may not be a complete match in the courses listed. 3 credits.

MSE 829. Research Methods. This course is designed to develop the understanding of the methods employed in planning and developing research in science. You will gain experience in generating ideas for research, critically evaluating literature, synthesizing and presenting results of research and writing in a clear and organized way. 3 credits.

MSE 830. Independent Research in Science Education. A topic relevant to the teaching of science in the classroom will be researched with the approval of the student's adviser. The topic of research should be well documented in professional journals and studies. 3 credits.

MSE 850. Independent Study. 1-6 credits.

MSE Administration and Resident Faculty

Michael A. Day, professor of physics. *Ph.D., University of Nebraska.* Day teaches history of physics, summer independent studies, and supervises research.

Michael B. Kitchens, assistant professor of psychology. *Ph.D., University of Mississippi.* He teaches research methods and supervises research.

Donald E. Kline, associate professor of education. *Ed.D., Lehigh University.* Kline supervises research.

Lou Manza, professor of psychology. *Ph.D., City University of New York.* Manza teaches research methods and supervises research.

Walter A. Patton, associate professor of chemistry. *Ph.D., Lehigh University.* Patton supervises research and teaches summer seminar courses.

Kerrie D. Smedley, associate professor of psychology. *Ph.D., University of Nebraska.*

Smedley teaches research methods.

Patricia Woods, coordinator of the MSE Program.

M.Ed., The Pennsylvania State University. Woods teaches the introductory course in science education and the curriculum course.

Allan F. Wolfe, professor of biology. *Ph.D., University of Vermont.* Wolfe teaches microscopy and supervises research.

DOCTOR OF PHYSICAL THERAPY

The Physical Therapy Program consists of a six-year program of study leading to a Doctor of Physical Therapy (D.P.T.) degree. Students at Lebanon Valley College receive a baccalaureate degree in health science after successful completion of four years of coursework. See Health Science Program information on page 132.

The program consists of two distinct phases: pre-professional education (three years, or approximately 95 semester credit hours): and professional education (three years, approximately 118 semester credit hours).

Lebanon Valley College's Doctor of Physical Therapy Degree Program is accredited by the Commission on Accreditation in Physical Therapy Education.

Degree: Doctor of Physical Therapy.

Prerequisites: two semesters each of general biology, chemistry, and physics; one semester upper level human anatomy and physiology, introductory psychology and sociology, and elementary statistics.

Professional required courses: PHT 412, 502, 504, 511,514, 516, 518, 520, 532, 534, 542, 550, 560, 710, 716, 720, 726, 728, 730, 742 736,738, 740, 750, 760, 752, 762, 764, 802, 830, 832, 834, 836, 850, 860.

PHT Courses:

710. Spanish for Physical Therapy and Rehabilitation. An introduction to the basic conversational and medical/technical vocabulary needed to communicate with Spanish-speaking patients. 2 credits.

716. *Health Promotion for Self and Society.* Covers health and health promotion topics across the lifespan. Students will begin to identify community needs that would benefit from a physical therapy program of prevention, health promotion, wellness, and screening services. 3 credits.

720. *Neuroscience.* Examines the central and peripheral nervous system with emphasis on neuroanatomy, neurophysiology, and neuropathologies. Laboratory sessions incorporate computer software, clinical neurologic examination skills with application to clinical cases. 4 credits.

726. *Clinical Interventions I.* First of a two-course sequence designed to instruct students in the use of therapeutic modalities to affect change in human tissues. Laboratory exercises include applying modalities, gait training with various devices, and therapeutic exercise. 4 credits.

728. *Musculoskeletal I.* First of a two-course sequence providing an in-depth study of the evaluation, assessment, and treatment methods used in the management of musculoskeletal pathology and/or injury. This first component of the two course sequence will emphasize the upper and lower limbs, with an introductory component to the spine. 4 credits.

730. Clinical Interventions II. A continuation of Clinical Interventions I. This course will examine edema and integumentary concerns, and specific exercise techniques, including stabilization and aquatics. 4 credits.

Lebanon Valley College

732. *Musculoskeletal II.* Second of a two course sequence providing an in-depth study of the evaluation, assessment, and treatment methods used in the management of musculoskeletal pathology and injury. This course will build upon material studied in PHT 728 and emphasize anatomical, biomechanical, and physiological factors relevant to musculoskeletal dysfunction. 3 credits.

736. Neuromuscular Physical Therapy I. Provides an examination of techniques used in the examination and assessment of persons with nervous system dysfunction. 4 credits.

738. *Geriatrics Physical Therapy*. Presents the aging process in relation to pathokinesiology, the immune system, cardiopulmonary system, musculoskeletal system, neuromuscular function, and therapeutic intervention adaptation. 3 credits.

740. Prosthetics and Orthotics. Provides a detailed examination of the physical therapy management of individuals requiring splinting or bracing, as well as individuals with amputations requiring prosthetic devices. 2 credits.

750. Evidence Based/Critical Inquiry II. This is the second in a series of a four-part course sequence of critical inquiry/evidence-based physical therapy. In this course, the student will begin the process of developing a case study (using a clinical case that was obtained in the student's first clinical affiliation) that is evidenced-based. The concepts of sensitivity, specificity, responsiveness to change and the epidemiologic concepts of prevalence, incidence, ratios, and proportions are covered. 2 credits.

752. Evidence Based/Critical Inquiry III. This is the third course in a four-part course sequence of critical inquiry/evidence-based physical therapy. The extensive use of Comprehensive Appraisals of a Topic Is the central theme of this semester. Current published research topics include: clinical prediction rules, prognosis, low back dysfunction, shoulder dysfunction and patient satisfaction. 2 credits.

760. *Clinical Education and Practice II.* Students will be assigned to a supervising Clinical Instructor (CI) and have the opportunity to examine, evaluate, propose, and implement intervention strategies in a full-time clinical experience. Students will complete documentation for patient care management and are expected to demonstrate professional behaviors. Graded pass/fail. 3 credits.

762. Clinical Education and Practice III. A seven-week, full-time clinical learning experience to integrate knowledge and skills learned in the patient/client management model. Students should expect to examine, evaluate, diagnose, and develop and implement a plan of care that addresses patient/client needs demonstrating knowledge of evidenced-based health care with supervision from the Clinical Instructor. Graded pass/fail. 3credits.

764. Clinical Education and Practice IV. The second, seven-week, clinical learning experience where students continue to develop clinical skills and demonstrate competence in evidence-based management of various musculoskeletal, cardiovascular-pulmonary, integumentary, and neuromuscular disorders addressing patient/client needs with guidance from the Clinical Instructor. Graded pass/fail. 3 credits.

802. Physical Therapy Administration and Management. Examines current issues and

trends in physical therapy clinical management. 4 credits.

830. Neuromuscular Physical Therapy II. Examines in detail through a case-based approach specific neurologic conditions, the resulting impairments and functional limitations, and the physical therapy management of persons presenting with these conditions. 4 credits.

832. Pediatric Physical Therapy. Presents an introduction to the physical therapy management of pediatric patients. Topics include normal motor development, and client examination, evaluation, and intervention aimed at improving function and limiting disability. 4 credits.

834. Selected Physical Therapy Practice Topics. This course will cover specialized physical therapy practice areas and advanced evaluative, assessment, and interventional strategies for special populations. 2 credits.

836. *Differential Diagnosis.* Designed to integrate the curricular content to date. In this capstone course, students will demonstrate differential diagnosis as it relates to autonomous practice in realistic clinical situations. 3 credits.

850. Evidence Based/Critical Inquiry IV. This is the capstone course in a four-part course sequence of critical inquiry/evidence-based physical therapy. A formal case study is prepared in two formats for presentation at a professional meeting. The poster format is developed using the elements of the "Physical Therapist Patient Management Model" as well as a formal case study document detailing the evidence gathered. 2 credit.

860. *Clinical Education and Practice V.* Final, full-time supervised clinical learning experience spanning sixteen weeks in a multidisciplinary care environment. Students will demonstrate entry-level patient management skills for pediatric and/or adult patient/clients with complex diagnoses utilizing an evidence-based approach. Graded pass/fail. 12 credits.

DPT Administration and Resident Faculty

Stan M. Dacko, associate professor of physical therapy. Chairperson.

Ph.D., Hahnemann University.

He teaches cardiopulmonary, physical therapy, and neuroscience. His research interests are related to motor control and interventions for neurodegenerative diseases.

Marcia Epler, associate professor of physical therapy.

Ph.D., Temple University.

She teaches biomechanics and kinesiology and the musculoskeletal course series. Her research interests include clinical and functional outcome and orthoses efficacy. Clinical practice areas include orthopedics and sports medicine.

Michael Fink, assistant professor of physical therapy.

DSC, Baylor University.

He teaches differential diagnosis, pharmacology, and human anatomy. His research interests include: ACL rehabilitation/prevention/functional testing, shoulder instability rehabilitation/prevention, and the impact of exercise on diabetes. Claudia C. Gazsi, assistant professor of physical therapy. Director of clinical education.

M.H.A., The Pennsylvania State University.

She teaches foundational professional issues courses and oversees the clinical education course series. Her interests include fall reduction, balance, and vestibular disorders.

Michael E. Lehr, clinical assistant professor of physical therapy.

DPT, Temple University.

He teaches clinical examination and clinical interventions. His research interests include manual therapy, functional exercise/movement, and clinical decision making within the orthopedics and sports medicine field.

Victoria Marchese, assistant professor of physical therapy.

Ph.D., Hahnemann University.

She teaches pathophysiology and evidence based/critical inquiry. Her research interests involve the investigation of exercise as an intervention and the development of functional outcome measures for children with cancer.

Roger M. Nelson, professor of physical therapy.

Ph.D. University of Iowa.

He teaches the evidence based/critical inquiry physical therapy series and selected physical therapy practice topics. His research interests include outcome modeling using activity-based methodology and patient satisfaction.

Kathryn N. Oriel, assistant professor of physical therapy.

Ed.D., Idaho State University.

She teaches pediatric physical therapy, health promotions, and motor control. Her research interests are related to school-based physical therapy practice and infant/toddler development.

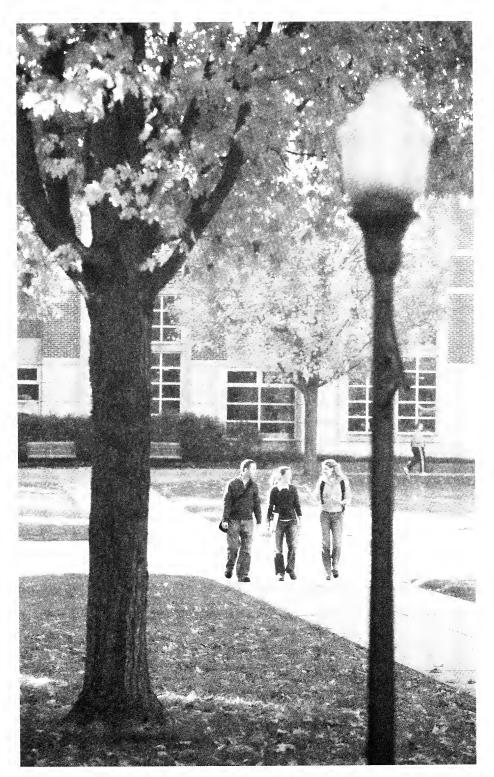
Debbie Nawoczenski, adjunct professor of physical therapy. *PT*, *Ph.D*.

Laura Abello, adjunct professor, adjunct professor of physical therapy.

Theodore Yanchuleff, adjunct professor of physical therapy.

M.P.A., Pennsylvania State University

He teaches physical therapy administration and management.



DIRECTORY

Board of Trustees, Lebanon Valley College

Officers

Lynn G. Phillips '68 Edward H. Arnold Katherine J. Bishop Harry B. Yost '62 Beth Esler Douglas Deborah R. Fullam '81 George J. King '68

Chair Vice Chair Vice Chair Secretary Assistant Secretary Treasurer Assistant Treasurer

Trustees

Kristen R. Angstadt, '74, B.A., M.A., Ph.D.; Psychologist/Supervisor of Pupil Services, Capital Area Intermediate Unit #15 (2013).

Edward H. Arnold, B.A.; L.H.D.; Chairman, C.E.O. and President, Arnold Logistics (2011).

Katherine J. Bishop, B.A., M.B.A.; President, Lebanon Seaboard Corporation (2012).

Edward D. Breen, B.S.; Chairman and C.E.O., Tyco Electronics (2013).

Rev. Alfred T. Day III, B.A., M.Div.; Senior Pastor, Historic St. George's Methodist Church in Old City. (2013).

Wesley T. Dellinger, '75, B.S. CRS, GRI, CSP; Associate Broker and Director, Brownstone Real Estate Company (2012).

Geret P. DePiper '68, B.A.; Retired Senior Vice Presicent and Chief Operating Officer, CSX World Terminals, LLC (2013).

Ronald J. Drnevich, B.S.; Retired Chairman and CEO, Gannett Fleming Inc. (2011).

James G. Glasgow Jr., '81, B.A.; Managing Director/Partner, Five Mile Capital Partners, Inc. (2011).

Robert E. Harbaugh, '74, B.S., M.D.; Professor and Chairman, Department of Neurosurgery, The Pennsylvania State University, Milton S. Hershey Medical Center (2012).

Marc A. Harris, B.A., Ph.D.; Associate Professor of Chemistry, Lebanon Valley College (2012).

Wendie DiMatteo Holsinger, B.A., M.Ed.; Chief Executive Officer; A.S.K. Foods, Inc. (2011).

John F. Jurasits Jr., B.S.; Retired Vice President, Solution Technologies, Inc. (2012).

George J. King, '68, B.S., CPA; Chief Financial Officer, Energy Intelligence Group; President, RWS Energy Services, Inc. (2011).

Malcolm L. Lazin '65, B.S., J.D.; Executive Director, Equality Forum (2011).

196 Directory

2010-2011 Catalog

William Lehr Jr., B.B.A, J.D.; President and Chief Executive Officer, Capital Blue Cross. (2011).

Stephen C. MacDonald, B.A., Ph.D.; President, Lebanon Valley College.

Megan B. McGrady '11, Student, Lebanon Valley College (2011).

Daniel K. Meyer '81, B.A. M.D.; Assistant Professor of Medicine, UMONJ-Robert Wood Johnson Medical School, Camden, and Program Director, Infectious Diseases Fellow-ship Program at Cooper University Hospital (2012).

Carroll L. Missimer, '76, '79, B.A., B.S., M.S., Ph.D.; Environmental Biologist and Global Director for Environmental Affairs, P.H. Glatfelter Company (2012).

Renee Lapp Norris. B.A., M.M., Ph.D.; Associate Professor of Music, Lebanon Valley College (2013).

John S. Oyler, A.B., J.D.; Director of Acquisitions, Faulkner Organization (2012).

Lynn G. Phillips '68, B.S., M.Ed., Ed.D.; Retired, Aresty Institute of Executive Education, Wharton School of the University of Pennsylvania (2012).

George M. Reider Jr. '63; Retired Insurance Executive and Former Insurance Commissioner, State of Connecticut; Retired Teacher, University of Connecticut and Fordham University of Law (2013).

Stephen H. Roberts '65, B.S.; President, Echo Data Services, Inc. (2013).

Elliot Robinson, Vice President, Administration, Milton Hershey School (2012).

Elyse E. Rogers '76, B.A., J.D.; Attorney, Keefer Wood Allen & Rahal, LLP (2012).

Alan A. Symonette, B.A., J.D.; Arbitrator (2011).

Ryan H. Tweedie '93, B.S.; Founder and Managing Partner, Sapien, LLC (2013).

Elizabeth R. Unger '72, Anatomical Pathologist and Research Team Leader, Center for Disease Control (2012).

Scott N. Walck, B.S., M.S., Ph,.D.; Associate Professor of Physics, Lebanon Valley College (2011).

Albertine P. Washington, B.A., P.D.; Retired Elementary Educator, Lebanon School District (2013).

Samuel A. Willman '67, B.S.; M.Com.; President, Delta Packaging, Inc. (2011).

Harry B. Yost Esq. '62, B.S.; LL.D., LL.M.; Attorney, Senior Partner, Appel & Yost, LLP (2012).

Kelly E. Zimmerman '12; Student, Lebanon Valley College (2012).

Emeriti

Raymond H. Carr; Realtor; Commercial and Industrial Developer.

Ross W. Fasick, '55, B.S., M.S., Ph.D., L.H.D.; Retired Senior Vice President, E.I. DuPont de Nemours & Co.

Eugene C. Fish Esq., B.S., J.D., L.H.D.; Chairman and President, Peerless Industries, Inc.; Chairman of the Board, Eastern Foundry Company; Managing Partner, Romeika, Fish and Scheckter.

Eugene R. Geesey '56, B.S.; Retired Owner/President, CIB, Inc.

Martin L. Gluntz '53, B.S., M.S., Ph.D.; Retired Vice President, Technical Services, Hershey International Division, Hershey Foods Corporation.

Elaine G. Hackman '52, B.A.; Retired Business Executive.

Gerald D. Kauffman '44, A.B., M.Div., D.D.; Officer of the Courts, County of Cumberland; Pastor Emeritus, Grace United Methodist Church, Carlisle.

Kenneth H. Plummer; Retired President, E.D. Plummer Sons, Inc.

Thomas C. Reinhart '58, B.S. L.H.D.; Retired Owner/President, T.C.R. Packaging, Inc.

Bruce R. Rismiller '59, B.A., M.Ed.; Retired Executive Vice President, Northwest Airlines.

F. Allen Rutherford Jr. '37, B.S., LL.D.; Retired Ernst & Young C.P.A.

Daniel L. Shearer '38, A.B., S.T.M., D.D.; Retired Pastor, United Methodist Church.

Morton Spector, L.H.D.; Chairman of the Board, Design House Kitchens and Appliances.

Elizabeth K. Weisburger '44, B.S., Ph.D., D.Sci.; Retired Chief of Carcinogen Metabolism and Toxicology Branch, National Cancer Institute.

Harlan R. Wengert, B.S., M.B.A., D.Sci.; Retired Chairman of the Board, Wengert's Dairy, Inc.

J. Dennis Williams, B.A., M.Div., D.Min., D.D.; Retired United Methodist Clergyman; Senior Pastor, St. John's United Methodist Church.

Honorary

Suzanne H. Arnold, L.H.D.; Community Leader and Philanthropist.

Bishop Peggy A. Johnson, '75, B.A., M.Div., D.Min.; The United Methodist Church, Philadelphia Area.

F. Obai Kabia '73, B.S., M.P.A.; Retired Operations Officer, United Nations Organization.

Bishop Jane Allen Middleton, B.A., M.Div.; The United Methodist Church, Harrisburg Area, Northeastern Jurisdiction.

ADMINISTRATION

President

Stephen C. MacDonald, 1998–; President, Professor of Humanities. B.A., Tufts University, 1969; Ph.D., University of Virginia, 1977.

Beth Esler Douglas, 2004-; Executive Assistant to the President, 2004-; B.A., Dickinson College, 1985.

General College Officers

Anne M. Berry, 2000–; Vice President for Advancement. A.B., Franklin & Marshall College, 1977.

William J. Brown, 1980–; Vice President of Enrollment, 2007–. B.A., Lebanon Valley College, 1979; M.B.A., Philadelphia College of Textiles and Science, 1988.

Deborah R. Fullam, 1982–; Vice President for Finance, 1995–. B.S., Lebanon Valley College, 1981; M.B.A., Philadelphia University, 1988.

Michael R. Green, 2009–; Vice President for Academic Affairs and Dean of the Faculty, B.M.E., Illinois State University, 1982; M.Mus., University of Indiana, 1984; D.M.A., University of Iowa, 1988.

Gregory H. Krikorian, 2007–; Vice President for Student Affairs. B.A. Niagara University, 1984; M.A., Bowling Green State University, 1990.

Robert A. Riley, 1976–1978, 1988–; Vice President for Administration and Technology, 1995–. B.S., Elizabethtown College, 1976.

ADMINISTRATIVE OFFICERS

Academic

Michael R. Green, 2009–; Vice President for Academic Affairs and Dean of the Faculty, B.M.E., Illinois State University, 1982; M.Mus., University of Indiana, 1984; D.M.A., University of Iowa, 1988.

Maureen Anderson, 2009–; Access Services Librarian. B.A., Lebanon Valley College, 2000; M.S.L.S, Clarion University, 2007.

Shannon Brandt, 2009–; Assistant Dean for Student Success and Academic Advising. B.A., Alvernia College, 1994; M.S., West Chester University, 2000.

A. Blaine Carfagno, 2010-; Assistant Registrar. B.S., B.A., Lebanon Valley College, 2008.

Ann E. Damiano, 2010–; Associate Dean for Academic Affairs. B.A., State University of New York at Buffalo, 1979; M.Ed., 1983; D.Litt., Drew University, 2010.

Crista A. Detweiler, 2002–; Assistant Director of the Suzanne H. Arnold Art Gallery. B.A., Shippensburg University, 1992; M.A., University of Maryland, 2002. Dura, Marian, 2008–; Director of the MME Program. B.M. Arizona State University, 1978; M.M., University of Arizona, 1985; Ph.D., Northwestern University, 1998.

Jennifer Easter, 2007–; Director of the MBA Program, 2010-; B.S., University of Pennsylvania, 1987; M.P.H., UCLA School of Public Health; M.B.A. UCLA Anderson School of Management, 1992.

Yvonne M. Foster, 2003–; Director of Disability Services. B.S., Millersville University, 1992; M.S., 1995; M.S., Philadelphia College of Osteopathic Medicine, 2001; Psy.D., 2006.

Andrew S. Greene, 1990-; Director of Media Services, 1992-. B.S., Kutztown University, 1990.

Gary Grieve-Carlson, 1990–; Director of General Education, 2001–. B.A., Bates College, 1977; M.A., Binghamton University, 1980; Ph.D., Boston University, 1988.

Julia L. Harvey, 1998–; Technical Services Librarian. A.A., Cottey College, 1977; B.A., Cedar Crest College, 1979; M.S., Drexel University, 1981; M.A., Rider University, 1990.

Lori A. Nyce, 2010–; Systems and Electronic Services Librarian. B.A., Lebanon Valley College, 1992; M.S.L.S., Clarion University, 1996.

Marcus Horne, 1992–; Science Departments Stockroom Coordinator, Chemical Hygiene Officer. B.S., Lebanon Valley College, 1992.

Andrew S. Jenkins, 2009–; Assistant Director of Media Services. B.M., Lebanon Valley College, 2005.

Jeremy A. Maisto, 2004-; Registrar, 2008-. B.A., Drew University, 2000.

Louis Manza, 1995–; Director, Youth Scholars Institute, 2009–. B.A., State University of New York at Binghamton, 1988; M.A. Brooklyn College, 1991; M.Phil., City University of New York, 1991; Ph.D., 1992.

Donna L. Miller, 1986–; Readers Services Librarian. B.S., Millersville University, 1984; B.A., Lebanon Valley College, 1993; M.L.S., Drexel University, 1986.

Frank Mols, 2007–; Director of the Bishop Library. B.A., University of Pittsburgh, 1971; M.L.S., 1973.

John J. Peck, O.S.B., 1999–; Adjunct Catholic Chaplain. Saint Vincent College and Seminary; Franciscan University.

Jill Russell, 2001–; Director of Study Abroad. B.S., University of New Hampshire, 1993; M.S., University of Victoria, 1999.

Susan Szydlowski, 1995–; Director of Special Music Programs. B.A., Colby College, 1996.

Lisa N. Tice, 2009–; Director of the Suzanne H. Arnold Art Gallery. B.A., James Madison University, 1998; M.A., Syracuse University in Florence, 2001; Ph.D., Rutgers University, 2009.

200 Directory

2010–2011 Catalog

Hope I. Witmer, 2010–. Assistant Dean for Graduate Studies and Continuing Education. B.S.W, Shippensburg University, 1982; M.S.W., Temple University, 1991; Ph.D., Walden University, 2006.

Patricia L. Woods, 2007–; Coordinator of the MSE Program. B.S., Niagara University, 1976; M.Ed., The Pennsylvania State University, 2010.

Administration and Information Technology

Robert A. Riley, 1976–1978, 1988–; Vice President for Administration and Technology, 1995–. B.S., Elizabethtown College, 1976.

Robert J. Dillane, 1985–; Director of Information Management Services, 1986–. B.S., Lebanon Valley College, 1977.

Todd M. Gamble, 1998–; Senior PC Support Specialist, 2006–. B.S., Lebanon Valley College, 1998.

Kent A. Harshman, 2002–; Database Analyst/Programmer. B.S., Lock Haven University, 1980.

Angela E. Kinney, 2000-; Database Specialist. B.S., Geneva College, 1992.

Margaret A. Lahr, 1988–; Director of Housekeeping Services.

Donald Santostefano, 2006–; Senior Director of Facilities Services. B.S., Fairfield University, 1975; M.S., Rensselaer Polytechnic Institute, 1979.

Harold G. Schwalm, 1994-; Director of Building Maintenance.

David W. Shapiro, 2000–; Director of Technical Services, 2005–. B.A., Lebanon Valley College, 1999.

Victoria Trostle, 2004–; Manager of Service Response Operations, 2007–; B.S., The Pennsylvania State University, 1974.

Kevin R. Yeiser, 1982-; Director of Grounds Maintenance.

Michael C. Zeigler, 1990–; Director of Client Services. B.S., The Pennsylvania State University, 1979; M.Ed., 1995.

Advancement

Anne M. Berry, 2000–; Vice President for Advancement. A.B., Franklin & Marshall College, 1977.

Shanna G. Adler, 1992–; Director of Advancement Services, 2005–; B.S., Bucknell University, 1992.

Kelly A. Alsedek, 1998–; Associate Director of College Relations/Director of Publications, 2002–; B.A., Gettysburg College, 1971.

Jasmine A. Bucher, 2001–; Director of Web Communications and New Media, 2009–; B.A., Lebanon Valley College, 1997; M.A., The Pennsylvania State University, 2004.

Michelle A. Krall, 2008–; Assistant Director of Alumni Programs. B.A., Juniata College, 2008.

Jamie N. Cecil, 2004–; Director of Development, 2010–. B.A., The Pennsylvania State University, 2000; M.B.A., Lebanon Valley College, 2007.

Sarah C. Dull, 2010–; Assistant Director of Sports Information/Web Writer. B.S., Ithaca College, 2008.

Timothy E. Flynn, 2007–; Director of Sports Information. B.A., Lebanon Valley College, 2005.

Meghan Gibson. 2009–; Publications and Web Assistant. B.S., Philadelphia University, 2009.

Thomas M. Hanrahan, 1997–; Director of College Relations, 1999–. B.A., East Stroudsburg University, 1990; M.Ed., 1992; D.Ed., The Pennsylvania State University, 2004.

Jayanne N. Hayward, 2005-; Director of Alumni Programs, 2007-. B.A., Lebanon Valley College, 2001.

Alexandra R. Olexy, 2001–; Director of Advancement Special Events. B.A., The Penn-sylvania State University, 1999.

Cindy L. Progin, 1998–; Director of Advancement Research, 2004-. B.A., Lebanon Valley College, 2004.

Shaylene Scheib, 2008–; Assistant Director of Annual Giving. B.S., Lebanon Valley College, 2007.

Todd C. Snovel, 2006–; Associate Director of Annual Giving, 2008–; B.A., Lebanon Valley College, 2006.

Enrollment

William J. Brown, 1980–; Vice President of Enrollment, 2007–. B.A., Lebanon Valley College, 1979; M.B.A., Philadelphia College of Textiles and Science, 1988.

Dorothy A. Brehm, 1993–, Assistant Director of Financial Aid, 2003–. B.S., The Penn-sylvania State University, 1976.

Vicki J. Cantrell, 1991–; Assistant Director of Financial Aid, 2002–. B.A., Lebanon Vallev College, 1999.

Kendra M. Feigert, 2004–; Director of Financial Aid. B.A. Bloomsburg University, 1995; M.S., Millersville University, 1998.

Jacqueline M. Hane, 2008-; Admission Counselor. B.A., Lebanon Valley College, 2008.

Susan Jones, 1993–; Director of Admission, 2001–. B.A., Lebanon Valley College, 1992; M.Ed., Temple University, 1999.

Keo Oura Kounlavong, 2002-; Assistant Director of Admission, 2005-; B.A., Ursinus College, 2000.

Erin N. Sanno, 2001–; Assistant Director of Admission, 2004–. B.A., Lebanon Valley College, 1998.

202 Directory

2010-2011 Catalog

E.J. Smith, 2007–; Admission Counselor. B.S., Lebanon Valley College, 1990. Jennifer L. Wert, 2008–; Admission Counselor. B.S., Lebanon Valley College, 2008.

Finance

Deborah R. Fullam, 1982–; Vice President for Finance, 1995–. B.S., Lebanon Valley College, 1981; M.B.A., Philadelphia University, 1988.

Michelle A. Biever, 2008–; Text Book Manager. B.S., Kutztown University, 1984; B.S. Lebanon Valley College, 2004.

Robert J. Brestensky, 2007-; Staff Accountant. B.S., California University of PA, 2004.

Nichole F. Duffy, 2009–; Director of Business Service. B.A. Susquehanna University, 1996; M.Ed., Lynchburg College, 2003.

Ann C. Hayes, 2006–; Director of Human Resources. B.A., Millersville University, 1983; M.P.A., The Pennsylvania State University, 1995; P.H.R., Society of Human Resource Management, 1996.

Dana K. Lesher, 1990–; Director of Payroll and Benefits Administration, 2007–. B.A., Millersville University, 1977.

Eleanor M. Lewis, CPA, 2009-; Controller, B.S., Indiana University of Pennsylvania, 1984.

Jennifer S. Liedtka, 1994–; Director of Institutional Research, 2005–. B.S., Lebanon Valley College, 1992; M.B.A., Lebanon Valley College, 2000.

Chad Schreier, 2005-; Manager of the College Store. B.A., Lebanon Valley College, 2005; M.B.A., 2009.

Carrie Skovrinskie, 2004–; Director of Student Accounts. B.S., Lebanon Valley College, 1998; M.A., The Pennsylvania State University, 2001.

Student Affairs

Gregory H. Krikorian, 2007–; Vice President for Student Affairs. B.A., Niagara University, 1984; M.A., Bowling Green State University, 1990.

Valerie G. Angeli, 2003–; Director of Health Services, 2010–. B.S.N., Lebanon Valley College, 1982; R.N., Diploma, Geisinger Medical Center School of Nursing, 1982.

Richard L. Beard, 1994–; Director of Athletics, 1997–. B.A., Lebanon Valley College, 1989; M.B.A., 1992.

Brooke F. Donovan, 2008–; Associate Director of Student Activities and Engagement. B.S., Millersville University, 2004; M.S., Shippensburg University, 2007.

Jennifer Dawson Evans, 1991–; Director of Student Activities and the College Center, 1995–. B.S., Kansas State University, 1989; M.S., Shippensburg University, 1991.

Stephanie A. Falk, 2008–; Part-time Counselor. B.A., Villanova University, 1987; M.A., University of Richmond, 1989; Ph.D., Loyola University of Chicago, 1995.

Lebanon Valley College

Directory 203

Paul Fullmer, 2005–; Chaplain, 2005–; B.S., University of Southern California, 1990; M.Div., Fuller Theological Seminary, 1994; Ph.D., Graduate Theological Union, Berkeley, 2005.

Kathleen F. Gallagher, 2008–; Director of Counseling. B.S., Temple University, 1986; M.A., Kutztown University, 1993; Ph.D., University of North Dakota, 2006.

Sharon Givler, 2003–; Director of Career Services, 2005–. B.A., Geneva College, 1974; M.Ed., Millersville University, 1984.

Jason A. Kuntz, 2000–; Director of Residential Life, 2005–. B.A., Baldwin-Wallace College, 1996; M.Ed., University of South Carolina, 1998.

Katelyn Maher, 2010-; Residential Life Area Coordinator, 2010-. B.S., University of Scranton, 2008; M.S., Canisius Collge, 2010.

Leah M. Mauro, 2009–; Residential Life Area Coordinator. B.A., Millersville University, 2004; M.S., Holy Family University, 2009.

Gwendolyn Miller, 2008–; Assistant Director of Career Services. B.A., New Mexico State University, 2006; M.Ed., University of North Texas, 2008.

Robert K. Nielsen, 1993-; College Physician. M.D., Albany Medical College, 1975.

Brandon H. Smith, 2009–; Residential Life Area Coordinator. B.A., Marywood University, 2005.

Melissa Weidler, 2008–; Director of the Arnold Sports Center. B.S. East Stroudsburg University, 1993.

Allen R. Yingst, 1989-; Director of Public Safety, 1990-.

Rosemary Yuhas, 1973–; Dean, Student Affairs, 1991–. B.S., Lock Haven University, 1966; M.Ed., West Chester University, 1970.

Athletics

Richard L. Beard, 1994–; Director of Athletics, 2007–. B.A., Lebanon Valley College, 1989; M.B.A., 1992.

Joseph E. Buehler III, 2004–; Assistant Football Coach, Coordinator for Recruitment. B.A., Lebanon Valley College, 1989; M.Ed., Millersville University, 2004.

Danielle M. Cowdell, 2009–; Head Cheerleading Coach. B.S. Lebanon Valley College, 2009.

Keith Evans, 1992–; Head Baseball Coach, 2003–. B.S., California University of Penn-sylvania, 1990.

Lauren N. Frankford, 2002–; Head Women's Soccer Coach; Assistant Athletic Director, B.A., Gettysburg College, 2000.

Mary M. Gardner, 1994–; Aquatic Director, Head Swim Coach, 1997–. B.A., Gettysburg College, 1977; M.Ed., The Pennsylvania State University, 1996.

Todd Goclowski, 2006-; Head Women's Basketbell Coach. B.A., Clark University, 1990.

Kenneth C. Grimes, 2005–; Head Men's Soccer Coach. B.S., Elizabethtown College, 1997; M.Ed., Millersville University, 2004.

John Haus, 2009–; Head Coach/Director of Lacrosse. B.S., University of North Carolina at Chapel Hill, 1983.

Stacey L. Hollinger, 1998–; Head Softball Coach; Assistant Athletic Director; Compliance Coordinator, 2004–. B.S., Millersville University, 1989.

Laurel Martin, 2001–; Head Field Hockey Coach. B.S., University of North Carolina at Chapel Hill, 1991.

Brad F. McAlester, 1994–; Head Men's Basketball Coach. B.A., Southampton College of Long Island University, 1975.

James P. Monos Jr., 2004–; Head Football Coach, 1986–1996; 2004–. B.S., Shippensburg State College, 1972; M.Ed., Western Maryland College, 1978.

James O'Brien, 2008–; Head Men's and Women's Cross Country Coach. B.S. Political Science, Lebanon Valley College, 2007.

Vincent E. Pantalone, 2004–; Assistant Football Coach. B.A., Moravian College, 1977; Secondary Certificate, Penn State Capitol Campus, 1989.

Wayne Perry, 1987–; Head Women's Volleyball Coach, 1988–. B.S., Lebanon Valley College, 1978.

Louis A. Sorrentino, Golf Coach, 1989–; B.A., Lebanon Valley College, 1954; M.S., Bucknell University, 1961.

Brianne Tierney, 2009-; Head Women's Lacrosse Coach. B.A., Colgate University, 2007.

James E. Stark, 1986–; Athletic Trainer. B.S., Lock Haven University, 1983; M.Ed., Shippensburg University, 1986.

Melissa Weidler, 2008–: Head Men's and Women's Track and Field Coach. B.S., East Stroudsburg University. 1993.

FACULTY

Active

Sharon O. Arnold, 1986–; Associate Professor of Sociology. Chairperson of the Department of Sociology. B.A., University of Akron, 1964; M.A., 1967; M.S.W., Temple University, 1994.

Tami L. Barton, 2008–; Assistant Professor of Accounting. B.S., Shepherd College, 1986; M.B.A., St. Joseph's University, 1996.

Philip J. Benesch, 2005–; Associate Professor of Political Science. B.A., University of London, 1981; M.A., London School of Economics, 1982; Ph.D., University of Delaware, 2003.

Philip A. Billings, 1970–; Professor of English. B.A., Heidelberg College, 1965; M.A., Michigan State University, 1967; Ph.D., 1974.

Kristen L. Boeshore, 2005–; Assistant Professor of Biology. B.S., Lebanon Valley College, 1992; Ph.D., Case Western Reserve University, 1998.

Michelle Bonczek. 2010–; Assistant Professor of English. B.S., State University of New York at Brockport, 1997; M.A., 2000; M.F.A., Eastern Washington University, 2004; Ph.D., Western Michigan University, 2010.

Marie G. Bongiovanni, 1990–; Professor of English. Chairperson of the Department of English. B.A., Temple University, 1977; M.B.A., Drexel University, 1982; M.L.A., University of Pennsylvania, 1996.

Jean-Marc Braem, 2002–; Associate Professor of French. Licencé, Université Libre de Bruxelles, 1980; M.A., Princeton University, 1985; Ph.D., 1989.

J. Patrick Brewer, 1997–; Associate Professor of Mathematical Sciences. B.S., Northern Arizona University, 1991; M.S., University of Oregon, 1993; Ph.D., 1997.

James H. Broussard, 1983–; Professor of History. A.B., Harvard University, 1963; M.A., Duke University, 1965; Ph.D., 1968.

Robert Carey. 2010–; Assistant Professor of Biology. B.A., Hiram College, 1998; Ph.D., The Pennsylvania State University, 2006.

Treva Clark. 2010–; Assistant Professor of Business Administration. B.S., York College of Pennsylvania, 1983; M.B.A., Loyola College of Pennsylvania, 1991.

Ila Leigh Cobbs, 2009–; Assistant Professor of Mathematical Sciences. B.S., Texas A&M University, 2003; Ph.D., Rutgers University, 2009.

Rick M. Chamberlin, 2006–; Assistant Professor of German and French. B.A., Hillsdale College, 1988; A.M., University of Michigan, 1990; Ph.D., 1997

Stan M. Dacko, 2003–; Associate Professor of Physical Therapy. Chairperson of the Department of Physical Therapy. B.A., Rutgers University, 1974; M.S., Boston University, 1983; Ph.D., Hahnemann University, 1997. Michael A. Day, 1987–; Professor of Physics. B.S., University of Idaho, 1969; M.A., 1975, Ph.D., 1977, University of Nebraska (Philosophy); M.S., 1978, Ph.D., 1983, University of Nebraska (Physics).

Will Delavan, 2009–; Assistant Professor of Economics. B.A., Boston College, 1985; M.S., 1997, Ph.D. 2003, The Pennsylvania State University.

Johannes M. Dietrich, 1995–; Professor of Music. B.M., Montana State University, 1990; M.M., University of Cincinnati College-Conservatory of Music, 1992; D.M.A., 1996.

Deanna L. Dodson, 1994–; Professor of Psychology. B.S., Tennessee Technological University, 1985; M.S., Memphis State University, 1988; Ph.D., 1992.

Christopher J. Dolan, 2007–; Assistant Professor of Political Science. B.A., Siena College, 1995; M.A., Northeastern University, 1997; Ph.D., University of South Carolina, 2002.

Laura G. Eldred, 2007–; Assistant Professor of English. B.A., College of William and Mary, 1998; M.A., University of North Carolina at Chapel Hill, 2000; Ph.D., 2006.

Marcia Epler, 2003–; Associate Professor of Physical Therapy. B.A., Ithaca College, 1973; B.S., 1975; M.Ed., Temple University, 1981; Ph.D., 1996.

Scott H. Eggert, 1983–; Professor of Music. B.F.A., University of Wisconsin (Milwaukee), 1971; M.A., University of Chicago, 1974; D.M.A., University of Kansas, 1982.

Dale J. Erskine, 1983–; Professor of Biology. Chairperson of the Department of Biology. B.A., University of Maine at Portland, 1974; M.A., State University of New York at Buffalo, 1976; Ph.D., University of Oklahoma, 1981.

Michael Fink, 2009–; Assistant Professor of Physical Therapy. B.S. Thomas Jefferson University, 2000; M.S., 2000; D.S.C. Baylor University, 2005.

Elizabeth M. French. 2010-; Assistant Professor of Education. B.S., Mansfield University, 1972; M.Ed., 1975.

Michael D. Fry, 1983–; Professor of Mathematical Sciences. B.A., Immaculate Heart College, 1975; Ph.D., University of Illinois, 1980.

Eric Fung, 2005–; Assistant Professor of Music. B.M., The Eastman School of Music, 1997; M.M., The Eastman School of Music, 1999; D.M.A., The Juilliard School, 2005.

Carmen García-Armero, 2010–; Assistant Professor of Spanish. B.A., Valencia University, 1992; M.A., University of North Carolina at Chapel Hill, 2001; Ph.D., University of Virginia, 2009.

Claudia C. Gazsi, 2001–; Assistant Professor of Physical Therapy. Academic Coordinator of Clinical Education. B.S., West Virginia University, 1981; M.H.A., The Pennsylvania State University, 2000.

Cheryl George, 1998–; Professor of Education. B.S., Texas Christian University, 1984; M.Ed., University of North Texas, 1988; Ph.D., 1993.

Marianne Goodfellow, 2006–; Associate Professor of Sociology. B.A., State University of New York, College of Arts and Sciences at Plattsburgh, 1979; M.A., The Pennsylvania State University, 1982; Ph.D., The Pennsylvania State University, 1995.

Stacy A. Goodman, 1996–; Professor of Biology. B.S., Westminster College, 1991; Ph.D., The Pennsylvania State University, 1996.

Michael R. Green, 2009–; Vice President for Academic Affairs and Dean of the Faculty, Professor of Humanities. B.M.E., Illinois State University, 1982; M.Mus., University of Indiana, 1984; D.M.A., University of Iowa, 1988.

Gary Grieve-Carlson, 1990–; Professor of English. Director of General Education. B.A., Bates College, 1977; M.A., Binghamton University, 1980; Ph.D., Boston University, 1988.

Ivette Guzmán-Zavala, 2007–; Assistant Professor of Spanish. B.A., University of Puerto Rico, 1991; M.A., Syracuse University, 1998; Ph.D., Rutgers University, New Brunswick, 2004.

Carolyn R. Hanes, 1977–; Professor of Sociology. B.A., Central Michigan University, 1969; M.A., University of New Hampshire, 1973; Ph.D., 1976.

Marc A. Harris, 2000–; Associate Professor of Chemistry. B.A., University of Arizona, 1994; Ph.D., University of Nevada at Reno, 1999.

Bryan V. Hearsey, 1971–; Professor of Mathematical Sciences. Chairperson of the Department of Mathematical Sciences; B.A., Western Washington State College, 1964; M.A., Washington State University, 1966; Ph.D., 1968.

Christopher J. Heffner, 2008–; Assistant Professor of Music; 2007–2008, Visiting Assistant Professor of Music. B.M.E., Western Kentucky University, 1997; M.M., University of Florida, 2003; Ph.D., 2007.

Barry R. Hill, 1993–; Professor of Music. Director of the Music Recording Technology Program. B.S., Music with Recording Arts, University of North Carolina at Asheville, 1989; M.M., New York University, 1996.

John H. Hinshaw, 2000–; Associate Professor of History. Chairperson of the Department of History and Political Science. B.A., Macalester College, 1985; M.A., Carnegie Mellon University, 1988; Ph.D., 1995.

J. Noel Hubler, 1995–; Professor of Philosophy. Chairperson of the Department of Religion and Philosophy; B.A., University of Pennsylvania, 1981; Ph.D., 1995.

Barry L. Hurst, 1982–; Associate Professor of Physics. Chairperson of the Department of Physics. B.S., Juniata College, 1972; Ph.D., University of Delaware, 1982.

Diane E. Johnson, 2004–; Associate Professor of Political Science. B.A., Pepperdine University, 1980; M.A., California State University, Fresno, 1983; M.A., 1993; M.A., University of California, Santa Barbara, 1999; Ph.D., 2003.

Cynthia R. Johnston, 1991-; Lecturer in Chemistry. B.S., Lebanon Valley College, 1987.

Michael B. Kitchens, 2007–; Assistant Professor of Psychology. B.A., University of Mobile, 2000; M.A., University of Mississippi, 2004; Ph.D., 2007.

Donald E. Kline, 1997–; Associate Professor of Education. Chairperson of the Department of Education. B.S., Lebanon Valley College, 1966; M.Ed., Millersville University, 1975; M.S.Ed., Shippensburg University, 1977; Ed.D., Lehigh University, 1990.

Joel A. Kline, 1999–; Associate Professor of Digital Communications. A.S., Harrisburg Area Community College, 1985; B.S., B.A., Lebanon Valley College, 1989; M.J.P.R.A., Temple University, 2002; A.B.D., Texas Technological University, 2009.

Walter Labonte, 1992–; Instructor in English. Director of Writing Center. B.S., Northeastern University, 1968; M.A., 1977; M.Ed., Curry College, 1984.

Louis B. Laguna, 1999–; Associate Professor of Psychology. B.S., The Pennsylvania State University, 1990; M.S., Millersville University of Pennsylvania, 1992; M.A., University of Nebraska, 1995; Ph.D., 1998.

Courtney M. Lappas, 2008-; Assistant Professor of Biology. B.S., University of Richmond, 2000; M.S., University of Virginia, 2003; Ph.D., 2006.

Michael E. Lehr, 2008–; Clinical Assistant Professor of Physical Therapy. B.S., Lock Haven University, 1995; M.P.T., University of the Sciences in Philadelphia, 1999; DPT, Temple University, 2010.

Mary L. Lemons, 1996–; Professor of Music. Director of the Music Education Program. B.S., University of Illinois at Urbana-Champaign; M.S., 1990; Ed.D., 1998.

Robert W. Leonard, 1988–; Professor of Business Administration. B.A., Ohio University, 1977; M.A., St. Francis School of Industrial Relations, 1978; M.B.A., Ohio State University, 1986.

Rebecca C. Lister, 2003-; Associate Professor of Music. B.M., James Madison University, 1988; M.M., Florida State University, 1992; D.M., 1997.

David W. Lyons, 2000–; Professor of Mathematical Sciences. B.S., Davidson College, 1981; Ph.D., University of North Carolina at Chapel Hill, 1996.

Stephen C. MacDonald,, 1998–; President, Professor of Humanities. B.A. Tufts University, 1969; Ph.D., University of Virginia, 1977.

Louis Manza, 1995–; Professor of Psychology. Chairperson of the Department of Psychology. Director of Youth Scholars Institute, 2009. B.A., State University of New York at Binghamton, 1988; M.A., Brooklyn College, 1991; M.Phil., City University of New York, 1991; Ph.D., 1992.

Victoria G. Marchese, 2007–; Assistant Professor of Physical Therapy. B.S., University of Tennessee, 1994; Ph.D., MCP Hahnemann, 2001.

Anderson L. Marsh, 2005–; Assistant Professor of Chemistry. B.S., Hampden-Sydney College, 1998; Ph.D., University of Michigan, 2003.

G. Daniel Massad, 1985–; Artist-in-Residence. B.A., Princeton University, 1969; M.A., University of Chicago, 1977; M.F.A., University of Kansas, 1982.

Rebecca McCoy, 1998–; Associate Professor of History. Chairperson of the Department of History and Political Science. A.B., Mount Holyoke College, 1975; M.A., University of North Carolina, 1980; Ph.D., 1992.

Gabriela McEvoy, 2009–; Assistant Professor of Spanish. A.A., San Diego Miramar College, 2001; B.A., University of California, 2003; M.A., 2006.

Mark L. Mecham, 1990–; Clark and Edna Carmean Distinguished Professor of Music. Chairperson of the Department of Music. B.M., University of Utah, 1976; M.M., 1978; D.M.A., University of Illinois at Urbana-Champaign, 1985.

Joerg Meindl, 2009–; Assistant Professor of German. M.A., Reprecht-Karls-Universitat Heidelberg, 2002.

Owen A. Moe Jr., 1973–; Vernon and Doris Bishop Distinguished Professor of Chemistry. Chairperson of the Department of Chemistry. B.A., St. Olaf's College, 1966; Ph.D., Purdue University, 1971.

Shelly Moorman-Stahlman, 1997–; Professor of Music. B.Mus., University of Missouri-Kansas City, 1985; M.M., 1986; D.M.A., University of Iowa, 1990.

Roger M. Nelson, 2002-; Professor of Physical Therapy. Certificate in Physical Therapy, 1965; M.S., Boston University, 1971; Ph.D., The University of Iowa, 1981.

Michelle Niculescu, 2007–: Assistant Professor of Psychology. B.S., Muhlenberg College, 1999; Ph.D., Temple University, School of Medicine, 2005.

Renee Lapp Norris, 2002-; Associate Professor of Music. B.A., West Chester University, 1991; M.M., University of Maryland, 1994; Ph.D., 2001.

Kathryn N. Oriel, 2005–; Assistant Professor of Physical Therapy. B.S., University of Sciences, Philadelphia, 2000; Ed.D., Idaho State University, 2003.

Walter A. Patton, 1999–; Associate Professor of Chemistry. B.S., Susquehanna University, 1988; Ph.D., Lehigh University, 1993.

Timothy J. Peelen, 2005-; Assistant Professor of Chemistry. B.S., Calvin College 1996; Ph.D., University of Pittsburgh, 2002.

Neil Perry, 2004–; Associate Professor of Economics. B.B., La Trobe University, 1993; M.C., University of Melbourne, 1995; Ph.D., LaTrobe University, 2006.

Mary K. Pettice, 1994–; Associate Professor of English. B.A., Illinois Wesleyan University, 1982; M.S., University of Illinois, 1983; M.A. 1986; Ph.D., University of Houston, 1994.

Michael Pittari, 2002–; Associate Professor of Art. Chairperson of the Department of Art and Art History. B.F.A., University of Florida, 1989; M.F.A., University of Tennessee, 1995

Kevin B. Pry, 1991–; Associate Professor of English. B.A., Lebanon Valley College, 1976; M.A., The Pennsylvania State University, 1980; Ph.D., 1984.

210 Directory

2010-2011 Catalog

Jeffrey J. Ritchie, 2002–; Associate Professor of Digital Communications, Chairperson of the Department of Digital Communications. B.S. and B.A., Indiana University, 1989; M.A., University of South Carolina, 1993; M.Ed., Arizona State University, 1998; Ph.D., 2000.

Jeffrey W. Robbins, 2002–; Associate Professor of Religion. Director of the American Studies Program. B.A., Baylor University, 1994; M.Div., Texas Christian University, 1997; M.Phil., Syracuse University, 1999; Ph.D., 2001.

Catherine Romagnolo, 2004–; Assistant Professor of English. B.S., University of Florida, 1991; M.A., University of Maryland, 1997; Ph.D., 2003.

Victoria Rose, 2003–; Assistant Professor of Music. B.M., Peabody Conservatory of the Johns Hopkins University, 1972; M.M., Towson State University, 1994.

David Rudd, 2005–; Professor of Business Administration. Chairperson of the Department of Business and Economics. B.S., University of Wisconsin, 1966; M.B.A., University of Minnesota, 1973; Ph.D., George Washington University 1996.

Gail A. Sanderson, 1983–; Professor of Accounting. B.A., Hobart and William Smith Colleges, 1970; M.B.A., Boston University, 1977.

Matthew Samuel, 2010–; Assistant Professor of Digital Communications. B.F.A., Maryland Institute College of Art, 1998; M.A., 2000.

Matthew R. Sayers, 2008–; Assistant Professor of Religion. B.A. University of Maryland Baltimore County, 2000; M.A., Florida State University, 2002; Ph.D., University of Texas, Austin.

Michael J. Schroeder, 2008–; Assistant Professor of History. B.A., University of Minnesota, 1987; Ph.D., University of Michigan, 1993.

David M. Setley, 2008–; Assistant Professor of Business Administration. B.S.B.A., Kutztown University, 1977; M.B.A., 2000; D.B.A., Nova Southeastern University, 2005.

Daniel Simpkins, 1998–; Lecturer in Sociology. B.A., West Georgia College, 1976; M.A., University of North Carolina at Chapel Hill, 1984; Ph.D., 1992.

Kerrie D. Smedley, 1997–; Associate Professor of Psychology. B.S., The Pennsylvania State University, 1990; B.Ed., 1991; M.A., University of Nebraska, 1996; Ph.D., 1997.

Barry R. Smith, 2010–; Assistant Professor of Mathematical Sciences. B.A., B.S., University of California at San Diego, 2000; M.A., 2003; Ph.D., 2007.

Jeff Snyder, 1997–; Associate Professor of Music. Director of Music Recording Technology Program. A.A., Pensacola Junior College, 1982; B.A., University of West Florida, 1984; M.S., Kutztown University, 1998.

Herbert L, Steffy, 2008–; Associate Professor of Education. B.S., Eastern Mennonite University, 1968; M.S. Ed., James Madison University, 1975; M.Ed., University of Central Florids, 1994; Ed.D., 1998.

Thomas M. Strohman, 1977–1983; 1987–; Associate Professor of Music. B.S., Lebanon Valley College, 1975; M.M., Towson State University, 1998.

Lebanon Valley College

Directory 211

Edward J. Sullivan, 2001–; Associate Professor of Business Administration and Economics. B.S., St. Peter's College, 1972; M.A., The Pennsylvania State University, 1975; Ph.D., 1985.

Dale E. Summers, 1990–; Professor of Education. Director of Elementary and Secondary School Relations. B.S., Ball State University, 1971; M.A., 1973; Ed.D., 1978.

Linda L. Summers, 1991-; Assistant Professor of Education. B.S., Ball State University, 1972; M.A., 1977.

Dennis W. Sweigart, 1972–; Professor of Music. B.S., Lebanon Valley College, 1963; M.M., University of Michigan, 1965; D.M.A., University of Iowa, 1977.

Grant D. Taylor, 2005–; Assistant Professor of Art History. B.F.A., University of Western Australia, 2000; Ph.D., 2005.

Rebecca A. Urban, 2008-; Assistant Professor of Biology. B.S., Binghamton University, 2001; M.S., 2004; Ph.D., 2008.

Beth Wrenn Underwood, 2010–; Lecturer in Italian. B.S.L.A., Georgetown University, 1979; M.A., Middlebury College, 1987.

Noëlle Vahanian, 2005–; Assistant Professor of Philosophy. Baccalauréat, Lycée International des Pontonniers, 1988; B.A., Syracuse University; M.A., M.Phil., Ph.D., 1999.

Robert T. Valgenti, 2006–; Assistant Professor of Philosophy. B.A., College of the Holy Cross, 1993; M.A., Fairleigh Dickinson University, 1998; Ph.D., DePaul University, 2006.

Robert Vucic, 2009–; Lecturer in English and Advisor, LaVie Collegienne. B.A., Point Park University, 1970.

Scott N. Walck, 1999–; Professor of Physics. B.S., Rensselaer Polytechnic Institute, 1988; M.S., Lehigh University, 1992; Ph.D., 1995.

Karen Walker, 2005; Associate Professor of Education. B.A., California State University, Los Angeles, 1974; M.Ed., California State University, Los Angeles 1986; Ed.D., Bowling Green State University, 2001.

Allan F. Wolfe, 1968–; Professor of Biology. B.A., Gettysburg College, 1963; M.A., Drake University, 1965; Ph.D., University of Vermont, 1968.

Kenneth Yarnall, 1996–; Associate Professor of Mathematical Sciences. B.S., South Carolina College, 1986; Ph.D., University of South Carolina, 1992.

M. Jane Yingling, 2001–; Associate Professor of Education. B.S., Lock Haven University, 1972; M.A., Shippensburg University, 1996; Ph.D., Marywood University, 2004.

Emeriti

Madelyn J. Albrecht, 1973–1990; Associate Professor Emerita of Education. B.A., Northern Baptist College, 1952; M.A., Michigan State University, 1958; Ph.D., 1972.

Barbara J. Anderman, 2001–2010; Associate Professor Emerita of Art. B.A., M.A., University of St. Andrews, Scotland, 1971; M.A., Rutgers University, 1994; Ph.D., 2000.

Howard L. Applegate, 1983–2000; Professor Emeritus of History and American Studies. B.A., Drew University, 1957; M.A., Syracuse University, 1960; Ph.D., 1966.

Susan L. Atkinson, 1987–2008; Professor Emerita of Education. B.S., Shippensburg University, 1972; M.Ed. (Elementary Education), 1973; M.Ed. (Special Education), 1979; D.Ed., Temple University, 1987.

Eloise P. Brown, 1961–1987; Readers' Services Librarian Emerita. B.S.L.S., Simmons College, 1946.

Donald E. Byrne, Jr., 1971–2005; Professor Emeritus of Religion and American Studies. B.A., St. Paul Seminary, 1963; M.A. Marquette University, 1966; Ph.D., Duke University, 1972.

Voorhis C. Cantrell, 1968–1992; Professor Emeritus of Religion and Greek. B.A., Oklahoma City University, 1952; B.D., Southern Methodist University, 1956; Ph.D., Boston University, 1967.

Richard F. Charles, 1988–1997; Vice President Emeritus for Advancement. A.B., Franklin & Marshall College, 1953.

Charles T. Cooper, 1965–1979; Associate Professor Emeritus of Spanish. B.S., U.S. Naval Academy, 1942; M.A., Middlebury College, 1965.

Richard D. Cornelius, 1985–2001; Professor Emeritus of Chemistry. B.A., Carleton College, 1969; Ph.D., University of Iowa, 1974.

Salvatore S. Cullari, 1986–2003; Professor Emeritus of Psychology. B.A., Kean College, 1974; M.A., Western Michigan University, 1976; Ph.D., 1981.

George D. Curfman, 1961–1996; Professor Emeritus of Music Education. B.S., Lebanon Valley College, 1953; M.M., University of Michigan, 1957; Ed.D., The Pennsylvania State University, 1971.

Donald B. Dahlberg, 1980–2001; Professor Emeritus of Chemistry. B.S., University of Washington, 1967; M.S., Cornell University, 1969; Ph.D., 1971.

Alice S. Diehl, 1966–1997; Technical Processes Librarian Emerita. A.B., Smith College, 1956; B.S., Carnegie Institute of Technology, 1957; M.L.S., University of Pittsburgh, 1966.

Phylis C. Dryden, 1987-2004; Professor Emerita of English. B.A., Atlantic Union College, 1976; M.A., State University of New York at Albany, 1984; D.A., 1988.

William H. Fairlamb, 1947–1990; Professor Emeritus of Music. Mus.B., cum laude, Philadelphia Conservatory, 1949.

Lebanon Valley College

Eleaine Feather, 1989–99, 2004–2010; Director Emerita of Graduate Studies and Continuing Education. B.S., State University of New York at Cortland, 1965; M.S., State University of New York at Brockport, 1973.

Arthur L. Ford, 1965–2001; Professor Emeritus of English. A.B., Lebanon Valley College, 1959; M.A., Bowling Green State University, 1960; Ph.D., 1964.

Stanley A. Furmanak, 1990–2010; Systems and Reference Librarian Emeritus. B.A., University of Scranton, 1978; M.A., The Catholic University of America, 1981; M.L.S., Southern Connecticut State University, 1984.

Michael A. Grella, 1980–2001; Professor Emeritus of Education. B.A., St. Mary's Seminary and University, 1958; M.A., West Virginia University, 1970; Ed.D., 1974.

Klement M. Hambourg, 1982–1995; Professor Emeritus of Music. A.T.C.M., Royal Conservatory of Music, 1946; L.R.A.M., Royal Academy of Music, 1962; A.R.C.M., Royal College of Music, 1962; L.T.C.L., Trinity College of Music (London), 1965; Fellow, 1966; D.M.A., University of Oregon, 1977.

Robert E. Hamilton,, 1986-2008; Vice President Emeritus for Administration. A.B., Messiah College, 1962; M.Ed., Shippensburg University, 1966; D.Ed., The Pennsylvania State University, 1972.

Robert E. Harnish, 1967–2006; Manager of the College Store Emeritus. B.A. Randolph Macon College, 1966.

Robert H. Hearson, 1986–2007; Professor Emeritus of Music. B.M., University of Iowa, 1964; M.A., 1965; Ed.D., University of Illinois, 1983.

John H, Heffner, 1972–2005; Professor Emeritus of Philosophy. B.S., Lebanon Valley College, 1968; B.A., 1987; A.M., Boston University, 1971; Ph.D., 1976; M.A.R., Lancaster Theological Seminary, 2002.

Paul Heise, 1991-2004; Professor Emeritus of Economics. B.S.F.S., Georgetown University, 1958; M.A., 1963; M.P.A., Harvard University, 1972; Ph.D., New School for Social Research, 1991.

Jeanne C. Hey, 1989-2004; Professor Emerita of Economics. B.A., Bucknell University, 1954; M.B.A., Lehigh University, 1982; Ph.D., 1990.

John P. Kearney, 1971–2006; Professor Emeritus of English. B.A., St. Benedict's College, 1962; M.A., University of Michigan, 1963; Ph.D., University of Wisconsin, 1968.

Nevelyn J. Knisely, 1963–2003; Lecturer Professor Emerita of Music. B.M., Oberlin College, 1951; M.F.A., Ohio University, 1953.

David I. Lasky, 1974–1995; Professor Emeritus of Psychology. A.B., Temple University, 1956; M.A., 1958; Ph.D., 1961.

Jean O. Love, 1954–1985; Professor Emerita of Psychology. A.B., Erskine College, 1941; M.A., Winthrop College, 1949; Ph.D., University of North Carolina, 1953.

Leon E. Markowicz, 1971–2008; Professor Emeritus of Business Administration. A.B., Duquesne University, 1964; M.A., University of Pennsylvania, 1968; Ph.D., 1972; M.A., Antioch University, 1998.

William J. McGill Jr., 1986–1998; Senior Vice President and Dean of the Faculty Emeritus. A.B., Trinity College, 1957; M.A., Harvard University, 1958; Ph.D., 1961.

Anna D. Faber McVay, 1954–1976; Professor Emerita of English. A.B., Lebanon Valley College, 1948; M.A., University of Wisconsin, 1950; Ph.D., 1954.

Philip G. Morgan, 1969–2003; Professor Emeritus of Music. B.M.E., Pittsburg State University (Kansas), 1962; M.S., 1965.

John D. Norton, 1971–2006; Professor Emeritus of Political Science. B.A., University of Illinois, 1965; M.A., Florida State University, 1967; P.D., American University, 1973,

Sidney Pollack, 1976–2010; Professor Emeritus of Biology. B.A., New York University, 1963; Ph.D., University of Pennsylvania, 1970.

Barney T. Raffield III, 1990–2009; Professor Emeritus of Business Administration. B.B.A., Southern Methodist University, 1968; M.B.A., 1971; Ph.D., Union Graduate School, 1982.

Sharon Hall Raffield, 1990–2006; Associate Professor Emeritus of Sociology. A.B., Wheaton College, 1963; M.S.W., Washington University, 1967.

O. Kent Reed, 1971–2006; Associate Professor Emeritus of Physical Education. B.S., B.X. Otterbein College, 1956; M.A., Eastern Kentucky University, 1970.

Jacob L. Rhodes, 1957–1985; Professor Emeritus of Physics. B.S., Lebanon Valley College, 1943; Ph.D., University of Pennsylvania, 1958.

Frederick P. Sample, 1968–1983; President Emeritus. A.B. Lebanon Valley college, 1952; M.Ed., Western Maryland College, 1956; D.Ed., Pennsylvania State University, 1968.

James W. Scott, 1976–2009; Professor Emeritus of German. B.A., Juniata College, 1965; Ph.D., Princeton University, 1971.

Louis A. Sorrentino, , 1989–2000; Athletic Director Emeritus. B.A., Lebanon Valley College, 1954; M.S., Bucknell University, 1961.

Gregory G. Stanson, 1966-2006; Vice President Emeritus for Enrollment and Student Services. B.A., Lebanon Valley College, 1963; M.Ed., University of Toledo, 1966.

Joëlle L. Stopkie, 1989–2002; Professor Emerita of French. Licence, Sorbonne, 1960; M.A., New York University, 1963; Ph.D., Bryn Mawr College, 1979.

Warren K.A. Thompson, 1967–1997; Professor Emeritus of Philosophy. A.B., Trinity University, 1957; M.A., University of Texas, Austin, 1963.

Mark A. Townsend, 1983–2009; Professor Emeritus of Mathematical Sciences. B.S., Bethany Nazarene College, 1965; M.A., Oklahoma University, 1969; Ed.D., Oklahoma State University, 1983.

Perry J. Troutman, 1960–1994; Professor Emeritus of Religion. B.A., Houghton College, 1949; M.Div., United Theological Seminary, 1952; Ph.D., Boston University, 1964.

Susan E. Verhoek, 1974–2008; Professor Emerita of Biology. B.A., Ohio Wesleyan University, 1964; M.A., Indiana University, 1966; Ph.D., Cornell University, 1975.

L. Elbert Wethington, 1963–1983; Professor Emeritus of Religion. B.A., Wake Forest, 1944; B.D., Divinity School of Duke University, 1947; Ph.D., Duke University.

Stephen E. Williams, 1973–2008; Professor Emeritus of Biology. B.A., Central College, 1964; M.S., University of Tennessee, 1966; Ph.D., Washington University, St. Louis, 1971.

Juliana Z. Wolfe, 1975–1978, 1979–2010; Director Emerita of the College Health Center. R.N. Diploma, St. Joseph's Hospital.

Paul L. Wolf, 1966–2008; Professor of Emeritus Biology. B.S., Elizabethtown College, 1960; M.S., University of Delaware, 1963; Ph.D., 1968.

Glenn H. Woods, 1965–1990; Associate Professor Emeritus of English. A.B., Lebanon Valley College, 1951; M.Ed., Temple University, 1962.

COLLEGE SUPPORT STAFF

٠

Joy L. Albright	Information Technology Services Office
Deborah L. Atkins	Music Department
Marilyn S. Bahm	Administration and Finance Office
Debra J. Bishop	College Center
Judith S. Blouch	Academic Support and Disabilities Services Office
Marilyn E. Boeshore	Alumni Office
Carol L. Brashear	Physical Therapy Department
Donna L. Brickley	Information Technology Services Office
Jo Lynn Brummer	Development Office
Wendy L. Carfagno	President of the College Office
Becky Chanas	Library
Scott J. Conrad	Library
Marjorie E. Coughlan	
Susan L. Donmoyer	Career Services Office
Becky A. Firestone	
Mary E. Fisher	Academic Affairs and Dean of the Faculty Office
Paula Gahres	Chaplain's Office
Cheryl A. George	
Tara N. Gerstner	Business Office
Susan M. Greenawalt	Graduate Studies and Continuing Education Office
Daniel J. Grodzinski	LVC Sports Center
Rebecca M. Corum	Humanities Departments
Nancy J. Hartman	Business Office
Kristi H. Hatfield	
Pamela S. Hillegas	Athletic Office
Melodie Hoff	Advancement Office
Sharon B. Hurst	Development Office
Constance W. Kershner	Business Office
Lynne S. Konan	Physical Therapy Department
	Library
	Human Resources/Payroll Office
	Advancement Office
Christine M. Martin	MSE Office

Karen R. McLucas	Admission Office
Gina Messenger	Admission Office
Tammy L. Miller	College Store
Tami S. Morgan	Admission Office
James F. O'Brien	LVC Sports Center
Ann K. Pinca	Administration and Finance Office
Jill M. Rabuck	Annual Giving Office
Christine M. Reeves	Development Office
L. Anne Ristenbatt	Copy Center and Mail Services
Alice J. Rulapaugh	Student Affairs Office
Carol A. Sabados	Biology Department
Ann E. Safstrom	Music Department
Denise D. Sanders	Education Department
Jacqueline Scacco	Business and Economics Department
Wendy Smith	Admission Office
Susan M. SnyderMathematical Sciences; Ar	t and Art History and Psychology Departments
Paul Snyder	Information Technology Services Office
Jay L. Sorrentino	Athletic Equipment Room
Sharon L. StammEnglish; Political Science; an	nd Sociology and Criminal Justice Departments
Alisa K. Sterner	Information Technology Services Office
LaRue A. Troutman	Financial Aid Office
Nathaniel C. Tulli	Information Technology Services Office
Matthew P. Velazquez	Information Technology Services Office
Barbara E. West	Chemistry and Physics Departments
Sarah R. Wickenheiser	LVC Sports Center
Anita L. Williams	College Relations
Joshua Young	Information Technology Services Office

THE THOMAS RHYS VICKROY DISTINGUISHED TEACHING AWARDS

The Vickroy Award recipient, who must be a full-time member of the College faculty, is selected by the president of the College after appropriate consultation with alumni, students, faculty and staff. The Vickroy Award replaces the Lindback Award, which was presented through the 1993 academic year.

Previous Awardees

- 1985 Leon E. Markowicz, Ph.D., Professor of English
- 1986 Carolyn R. Hanes, Ph.D., Professor of Sociology and Social Work and Leadership Studies
- 1987 Donald E. Byrne Jr., Ph.D., Professor of Religion
- 1987 Mark A. Townsend, Ed.D., Assistant Professor of Mathematical Sciences
- 1988 William H. Fairlamb, Mus.B., Professor of Music
- 1989 Paul L. Wolf, Ph.D., Professor of Biology
- 1990 Owen A. Moe Jr., Ph.D., Professor of Chemistry
- 1991 Scott H. Eggert, D.M.A., Associate Professor of Music
- 1992 Gary Grieve-Carlson, Ph.D., Assistant Professor of English
- 1993 Diane M. Iglesias, Ph.D., Professor of Spanish
- 1994 Sidney Pollack, Ph.D., Professor of Biology and Barbara S. Vlaisavljevic, M.B.A., Assistant Professor of Accounting
- 1995 David I. Lasky, Ph.D., Professor of Psychology
- 1996 James W. Scott, Ph.D., Professor of German
- 1997 Howard L. Applegate, Ph.D., Professor of History and American Studies
- 1998 Mark L. Mecham, D.M.A., Professor of Music
- 1999 Michael A. Day, Ph.D., Professor of Physics
- 2000 Jeanne C. Hey, Ph.D., Associate Professor of Economics
- 2001 Allan F. Wolfe, Ph.D., Professor of Biology
- 2002 Marie G. Bongiovanni, M.L.A., Associate Professor of English
- 2003 Carl T. Wigal, Ph.D., Professor of Chemistry
- 2004 Mary L. Lemons, Ed.D., Associate Professor of Music
- 2005 Jefrey W. Robbins, Ph.D., Assistant Professor of Religion
- 2006 J. Patrick Brewer, Ph.D., Associate Professor of Mathematical Sciences
- 2007 Philip A. Billings, Ph.D., Professor of English
- 2008 M. Jane Yingling, Ph.D., Associate Professor of Education
- 2009 Scott N. Walck, Ph.D., Associate Professor of Physics
- 2010 Grant D. Taylor, Ph.D., Assistant Professor of Art History and Digital Communications

THE NEVELYN J. KNISLEY AWARD FOR INSPIRATIONAL TEACHING

In 1988, Lebanon Valley College created an award for part-time and adjunct members of the college faculty similar to the philosophy of the Vickroy Award. The first awardee was Nevelyn J. Knisley. After the presentation of the first award, the president of the College named this series of awards for Mrs. Knisley in recognition for her 24 years of inspired teaching in music.

Previous Awardees

- Nevelyn J. Knisley, M.F.A., Adjunct Associate Professor of Music 1988 1989 Carolyn B. Scott, B.A., Adjunct Instructor in French 1990 Michael J. Asken, Ph.D., Adjunct Associate Professor of Psychology 1991 Joanne Cole Rosen, B.A., Adjunct Assistant Professor of Chemistry Kevin B. Pry, Ph.D., Adjunct Assistant Professor of English 1992 Thomas M. Strohman, B.S., Adjunct Instructor in Music 1993 1994 Timothy M. Dewald, M.Div., Adjunct Instructor in Mathematical Sciences 1995 Léonie Lang-Hambourg, M.A., Adjunct Assistant Professor of German 1996 Cynthia R. Johnston, B.S., Adjunct Instructor in Chemistry 1997 Richard J. Tushup, Ph.D., Adjunct Assistant Professor of Psychology 1998 Arlen J.Greiner, M.S., Adjunct Assistant Professor of Physics Leslie E. Bowen, M.F.A., Lecturer in Art 1999 2000 Patricia M. Meley, M.A., Adjunct Instructor in American Studies 2001 Robert A. Nowak, M.M., Adjunct Assistant Professor of Music 2002 Gene G. Veno, M.P.A., Adjunct Instructor in Business Administration 2003 Marion M. Markowicz, M.S.S., Adjunct Instructor in Sociology Jeff Remington, M.Ed., Adjunct Instructor in Science Education 2004 2005 James A. Erdman II, Adjunct Instructor in Music. 2006 Marie Riegle-Kinch, M.F.A., Adjunct Assistant Professor of Art 2007 Anna F. Tilberg, B.A., Adjunct Instructor in Biology
- 2008 Joseph D. Mixon, M.M., Adjunct Instructor in Music
- 2009 Rachel R. Luckenbill, M.A., Lecturer in English
- 2010 Theresa Bowley, M.A., Adjunct Instructor in French

ACCREDITATION

Lebanon Valley College is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market Street, 2nd Floor West, Philadelphia, PA 19104; telephone: 267-284-5000.

Lebanon Valley College is also accredited by the Pennsylvania Department of Education, the National Association of Schools of Music, and the American Chemical Society.

Lebanon Valley College's Doctor of Physical Therapy Degree Program is accredited by the Commission on Accreditation in Physical Therapy Education.

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

Lebanon Valley College is a member of the following: American Association of Colleges; National Association of Independent Colleges and Universities; Pennsylvania Foundation for Independent Colleges; College Entrance Examination Board; College Scholarship Service; Council of Independent Colleges; National Collegiate Athletic Association; Middle Atlantic States Collegiate Athletic Conference; Penn-Mar Athletic Conference; Central Pennsylvania Field Hockey Association; Eastern College Athletic Conference.

STATEMENT ON NON-DISCRIMINATION

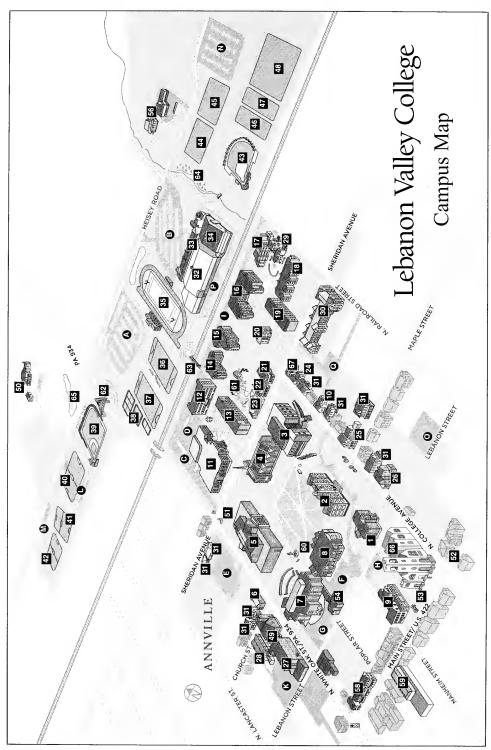
Lebanon Valley College does not discriminate on the basis of race, color, religion, gender, national origin, age, sexual orientation, disability, or age in its programs or activities. The College is committed to a policy of equal opportunity in all aspects of employment, including application, promotion, and transfer. Anyone who believes that he/she has been subjected to discrimination in violation of this policy is encouraged to report the problem to the Director of Human Resources/EEO/Title IX Coordinator or the Vice President for Academic Affairs.

STUDENT RETENTION

Lebanon Valley College participates in student financial assistance programs under Title IV of the Higher Education Act of 1965. According to the requirements of the Student Right-to-Know legislation, the college is required to report annually the graduation rates within 150 percent of the normal time to complete a degree to students and prospective students.

The cohort of 425 full-time, first-time degree-seeking undergraduates who entered Lebanon Valley College in the fall of 2003 consisted of 198 men and 231 women. At the end of four years, 292 had completed a bachelor's degree. At the end of the fifth year, another 26 had completed a bachelor's degree. By 2009, at the end of the sixth year, an additional 5 students had completed a bachelor's degree. The Student Right-to-Know Completion or Graduation Rate Calculation for the 2003 cohort is 75 percent. This information has been submitted to the U.S. Department of Education.

Detailed information on student retention and graduation rates is available in the Office of the Registrar.



 Carregie Building: Admission and Financiello Center and Administrative Offices Langhin Hall Arbanement Context Athlicit Department, Sciology and Criminal Department, Religio and Philosites Department, Religio and Philosites Deta of the Faculty, Vice President (Fadi Study, Aboud, Telephone Services, Joning Halls, Sciology Abroud, Telephone Services, Joning Halls, Sciology Abroud, Telephone Services, Joning Education, Mall Room, Neckolence Hall Reuthy Abroud, Telephone Services Bair Music Conter: Music Reuthy Abroud, Telephone Services Administrative Offices, Ant Study, Abroud Telefol Reuthy Abroud, Telephone Services Bair Music Conter: Music Reuthy Abroud, Telephone Se	FACILITIES	65. Williams Woods
 Department, Truysus Department, Department, Truysus Department, Truysus Department, Alumni Programs, Annual Giving, S. College Relations, Development, Leadership Gifts, Planned Giving (a) Wagner House: Student Affairs (b) Wagner House: Student Affairs (c) Wagner House: Student Affairs (a) Wagner House: Student Affairs (b) Wagner House: Student Affairs (c) Marry Capp Green Residence Hall (c) F. Marry Capter Residence Hall (c) F. Silver Residence Hall (c) F. Silver Residence Hall (c) Silver Residence Hall <li< th=""><th>111 Annald Contour</th><th>66. Annilla Ilaited Mathadiat Church</th></li<>	111 Annald Contour	66. Annilla Ilaited Mathadiat Church
 Vernon and Dorts Bishop Library Laughlin Hall Advancement Office: Laughlin Hall Advancement Office: Alumni Programs, Annual Giving, College Relations, Development, Leadership Gifis, Planned Giving Wagner House: Student Affairs Man W, Mund College Center: Mirer Services, Dining Halls, Leedy Theater, Multicultural Affairs Man W, Mund College Store, Conference Services, Dining Halls, Leedy Theater, MULVC Radio, Mary Capp Green Residence Hall Mary Capp Green Residence Hall Mary Capp Green Residence Hall Mary Capp Green Hall Vickroy Residence Hall Vickroy Residence Hall Student Activities Offices, Student et all Vickroy Residence Hall Stiver Residence Hall Sterides Numents Student Apartments Stanson Residence Hall Student Residence Hall Stanson Haust Center Stanson Haust Center Stanson Hauking Stanson Hauking 	H. Arnold Sports Center:	00. Annville United Methodist Church
 Laughlin Hall Advancement Office: Alumni Programs, Annual Giving, College Relations, Development, Leadership Gifts, Planned Giving (), Wagner House: Student Affairs Offices RESIDENTIAL LIFE BUILDINGS (), Wagner House: Student Affairs Offices RESIDENTIAL LIFE BUILDINGS (), Nagner House: Student Affairs Conference Services, Dining Halls, Leedy Theater, Multicultural Affairs Office, Student Newspaper, WLVC Radio, Leedy Theater, Multicultural Affairs Office, Student Newspaper, WLVC Radio, The Underground Jarry Capp Green Residence Hall J. Mary Uapp Green Residence Hall J. Vickroy Residence Hall J. Vickroy Residence Hall J. Sinver Residence Hall S. Maryuette Residence Hall Sinver Rucker	Indoor Track, Intercollegiate Athletics,	67. Public Safety
Alumni Programs, Annual Giving, 33. College Relations, Development, Leadership Gifts, Planned Giving 33. Io, Wagner House: Student Affairs 10. Wagner House: Student Affairs 34. Offices 34. 35. RESIDENTIAL LIFE BUILDINGS 34. II. Allan W. Mund College Center: 36. Conference Services, College Store, 38. Conference Services, Dining Halls, 39. Leedy Theater, Multicultural Affairs 40. Office, Student Activities Offices, 38. Student Newspper, WLVC Radio, 44. The Underground 44. 13. Vickroy Residence Hall 45. 13. Vickroy Residence Hall 46. 15. Hammond Residence Hall 46. 16. Funkhouser Residence Hall 46. 17. Marquette Residence Hall 46. 18. Dellinger Residence Hall 46. 19. Silver Residence Hall 46. 10. Silver Residence Hall 46. 11. Marquette Residence Hall 46. 12. Mary theuse Residence Hall 46. 13. Ustrower Residence Hall 47. 14. Student Ap	Pool, Recreational Facilities	
 College Relations, Development, Leadership Giffs, Planned Giving 10. Wagner House: Student Affairs 10. Wagner House: Student Affairs 11. Allan W. Mund College Center: 36 Conference Services, Dining Halls, Conference Services, Dining Halls, 11. Allan W. Mund College Store, Conference Services, Dining Halls, 2000 11. Allan W. Mund College Store, 38 Conference Services, Dining Halls, 11. Allan W. Mund College Store, 38 Conference Services, Dining Halls, 12. Mary Cape Center: 39 12. Mary Cape Green Residence Hall 44 13. Vickroy Residence Hall 44 14. Keister Residence Hall 45 14. Keister Residence Hall 46 14. Keister Residence Hall 46 15. Hammond Residence Hall 46 16. Funkhouser Residence Hall 47 20. North College Residence Hall 31. Conter Residence Hall 32. Subert Residence Hall 33. Center Residence Hall 34. 35. Strendship House Residence Hall 35. Strendship House Residence Hall 36. Reber Residence Hall 37. Derickson Hall R. Student Apartments 39. Stanson Hall B. Student Apartments 30. Stanson Hall B. Student Apartments 30. Stanson Hall Center 31. Student Center 31. Student Haminer 	33. The Heilman Center: Athletic	PARKING LOTS
 Leadership Gifts, Planned Giving Offices Nagner House: Student Affairs Offices RESIDENTIAL LIFE BUILDINGS Allan W. Mund College Center: Career Services, College Store, Career Services, College Store, Career Student Activities Offices, Student Newspaper, WLVC Radio, The Underground Mary Capp Green Residence Hall Mary Capp Green Residence Hall Vickroy Residence Hall Keister Residence Hall Keister Residence Hall Fammond Residence Hall Fambourd Residence Hall Silver Residence Hall Silverder Residence Hall 	Training Facilities, Classrooms, Fitness	Resident Students & ASC Members
 Wagner House: Student Affairs Offices RESIDENTIAL LIFE BUILDINGS Allan W. Mund College Center: Career Services. College Store, Conference Services. Dining Halls, Leedy Theater, Multicultural Affairs Office, Student Newspaper, WLVC Radio, The Underground Mary Capp Green Residence Hall Wickroy Residence Hall Wickroy Residence Hall Wickroy Residence Hall Keister Residence Hall Fankhouser Residence Hall Fanmond Residence Hall Funkhouser Residence Hall Silver Residence Hall Sil	Center, Physical Therapy Program,	A. Red Lot
 Offices RESIDENTIAL LIFE BUILDINGS RESIDENTIAL LIFE BUILDINGS I. Allan W. Mund College Center: Career Services. College Store, Conference Services. Dining Halls, Leedy Theater, Multicultural Affairs Office, Student Activities Offices, Student Newspaper, WLVC Radio, The Underground 12. Mary Capp Green Residence Hall 3. Vickroy Residence Hall 13. Vickroy Residence Hall 14. Keister Residence Hall 15. Hammond Residence Hall 16. Funkhouser Residence Hall 17. Marquette Residence Hall 17. Marquette Residence Hall 17. Marquette Residence Hall 18. Dellinger Residence Hall 19. Silver Residence Hall 20. North College Residence Hall 21. Shroyer Health Center 22. Sheridan Avenue Residence Hall 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall B. Student Apartments 28. Derickson Hall B. Student Apartments 29. New Student Center 30. Stanson Residence Hall 	s Pool	B. Red Lot
 RESIDENTIAL LIFE BUILDINGS Allan W. Mund College Center: Career Services. College Store. Conference Services. Dining Halls, Leedy Theater, Multicultural Affairs Office, Student Activities Offices. Student Newspaper, WLVC Radio, The Underground Mary Capp Green Residence Hall Mary Capp Green Residence Hall Vickroy Residence Hall Keister Residence Hall Keister Residence Hall Funkhouser Residence Hall Maryourthe Residence Hall Silver Residence Hall Silvent Apartments Suchant Housing Sudent Apartments Suerickson Hall M. Student Apartments Suerickson Hall M. Student Apartments Suerickson Hall M. Student Apartments 	/nınasium	N Cold Lot
 RESIDENTIAL LIFE BUILDINGS Allan W. Mund College Center: Carcer Services. College Store. Conference Services. Dining Halls, Leedy Theater, Multicultural Affairs Office. Student Activities Offices. Student Newspaper, WLVC Radio, The Underground 12. Mary Capp Green Residence Hall 13. Vickroy Residence Hall 14. Keister Residence Hall 15. Hammond Residence Hall 16. Funkhouser Residence Hall 17. Marquette Residence Hall 17. Marquette Residence Hall 18. Dellinger Residence Hall 19. Silver Residence Hall 20. North College Residence Hall 21. Shroyer Health Center 22. Sheridan Avenue Residence Hall 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall A: Student Apartments 28. Derickson Hall B: Student Apartments 29. New Student Center 30. Stanson Residence Hall 31. Schoot Housing 	35. Henry and Gladys Arnold Field:	IV. COM LOI
 Allan W. Mund College Center: Career Services. College Store. Conference Services. Dining Halls. Leedy Theater. Multicultural Affairs Office. Student Activities Offices. Student Newspaper, WLVC Radio, The Underground Underground Mary Capp Green Residence Hall Vickroy Residence Hall Vickroy Residence Hall Vickroy Residence Hall Marquette Residence Hall Narquette Residence Hall Silver Residence Hall Silvent Apartments Suchary House Residence Hall Sudent Apartments Sudent Apartments Sudent Apartments Sudent Apartments 	Football, Lacrosse, Track and Field	Staff and Visitors
 Carcer Services, College Store, Conference Services, Dining Halls, Leedy Theater, Multicultural Affairs Office, Student Activities Offices, Student Newspaper, WLVC Radio, The Underground 12. Mary Capp Green Residence Hall 13. Viskroy Residence Hall 14. Keister Residence Hall 15. Hammond Residence Hall 16. Funkhouser Residence Hall 17. Marquette Residence Hall 16. Funkhouser Residence Hall 17. Marquette Residence Hall 18. Dellinger Residence Hall 19. Silver Residence Hall 19. Silver Residence Hall 20. North College Residence Hall 21. Shroyer Health Center 22. Sheridan Avenue Residence Hall 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall A: Student Apartments 28. Derickson Hall B: Student Apartments 29. New Student Center 30. Stanson Residence Hall 	d Hockey Complex	C. Silver Lot
Conference Services, Dining Halls, Leedy Theater, Multicultural Affairs Office, Student Activities Offices, Student Newspaper, WLVC Radio, The Underground 12, Mary Capp Green Residence Hall 13, Vickroy Residence Hall 14, Keister Residence Hall 15, Hammond Residence Hall 16, Funkhouser Residence Hall 17, Marquette Residence Hall 17, Marquette Residence Hall 19, Silver Residence Hall 19, Silver Residence Hall 20, North College Residence Hall 21, Shroyer Health Center 22, Sheridan Avenue Residence Hall 23, Centre Residence Hall 24, Weimer Residence Hall 25, Friendship House Residence Hall 26, Reber Residence Hall 27, Derickson Hall A: Student Apartments 28, Derickson Hall B: Student Apartments 29, New Student Center 30, Stanson Residence Hall 31, Schoot Housing	Courts	D. Silver Lot
 Leedy Theater, Multicultural Affairs Office, Student Activities Offices. Student Newspaper, WLVC Radio, The Underground 12. Mary Capp Green Residence Hall 13. Vickroy Residence Hall 14. Keister Residence Hall 15. Hammond Residence Hall 16. Funkhouser Residence Hall 17. Marquette Residence Hall 17. Marquette Residence Hall 17. Marquette Residence Hall 18. Dellinger Residence Hall 20. North College Residence Hall 21. Shroyer Health Center 22. Shreidance Hall 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall B: Student Apartments 28. Derickson Hall B: Student Apartments 29. New Student Center 30. Stanson Residence Hall 	Baseball Park	E. Silver Lot
 Office. Student Activities Offices. Student Newspaper, WLVC Radio, The Underground 12. Mary Capp Green Residence Hall 13. Vickroy Residence Hall 14. Keister Residence Hall 15. Hammond Residence Hall 16. Funkhouser Residence Hall 17. Marquette Residence Hall 17. Marquette Residence Hall 18. Dellinger Residence Hall 19. Silver Residence Hall 20. North College Residence Hall 21. Shroyer Health Center 22. Sheridan Avenue Residence Hall 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall B: Student Apartments 28. Derickson Hall B: Student Apartments 29. New Student Center 30. Stanson Residence Hall 	Soccer Field	F. Silver Lot
 Student Newspaper, WLVC Radio, The Underground 12. Mary Capp Green Residence Hall 13. Vickroy Residence Hall 14. Keister Residence Hall 15. Hammond Residence Hall 16. Funkhouser Residence Hall 17. Marquette Residence Hall 17. Marquette Residence Hall 18. Dellinger Residence Hall 19. Silver Residence Hall 20. North College Residence Hall 21. Shroyer Health Center 22. Sheridan Avenue Residence Hall 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall A. Student Apartments 28. Derickson Hall A. Student Apartments 29. New Student Center 30. Stanson Residence Hall 	tice Soccer Fields	G. Silver Lot
The Underground 12. Mary Capp Green Residence Hall 13. Vickroy Residence Hall 15. Hammond Residence Hall 16. Funkhouser Residence Hall 17. Marquette Residence Hall 17. Marquette Residence Hall 18. Dellinger Residence Hall 19. Silver Residence Hall 20. North College Residence Hall 21. Shroyer Health Center 22. Sheridan Avenue Residence Hall 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall A. Student Apartments 28. Derickson Hall B. Student Apartments 29. New Student Center 30. Stanson Residence Hall 31. Schoot Housing	Park	H. Silver Lot
 Mary Capp Green Residence Hall Vickroy Residence Hall Hammond Residence Hall Funkhouser Residence Hall Funkhouser Residence Hall Marquette Residence Hall Marquette Residence Hall Silver Residence Hall South College Residence Hall Silver Residence Hall South Residence Hall South Residence Hall Reber Residence Hall South Annuel B: Student Apartments South House Residence Hall Sudent Apartments South House Residence Hall 	l Intramural Field	O. Silver Lat
 Vickroy Residence Hall Keister Residence Hall Hammond Residence Hall Funkhouser Residence Hall Funkhouser Residence Hall Marquette Residence Hall North College Residence Hall Silver Residence Hall Suberidan Avenue Residence Hall Centre Residence Hall Weimer Residence Hall Reber Residence Hall Stochant Hall A: Student Apartments Suberickson Hall A: Student Apartments Suberickson Hall B: Student Apartments Storent Residence Hall Storent Hausen Residence Hall 	ıral Field	D Silver Lot
 I.4. Keister Residence Hall I.5. Hammond Residence Hall I.6. Funkhouser Residence Hall I.7. Marquette Residence Hall I.7. Marquette Residence Hall I.8. Dellinger Residence Hall Silver Residence Hall 20. North College Residence Hall 21. Shroyer Health Center 22. Sheridan Avenue Residence Hall 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall & Student Apartments 28. Derickson Hall B. Student Apartments 29. New Student Center 30. Stanson Residence Hall 	tice Football Fields	
 Hammond Residence Hall Funkhouser Residence Hall Marquette Residence Hall Narquette Residence Hall Silver Residence Hall Silver Residence Hall Silver Residence Hall Sontre Residence Hall Sontextwo Hall & Student Apartments Sonson Residence Hall Sonson Residence Hall 	Athletic Field	Q. Silver Lot
 Funkhouser Residence Hall Marquette Residence Hall Bellinger Residence Hall Silver Residence Hall Silver Residence Hall Sonorth College Residence Hall Sonorth College Residence Hall Shroyer Health Center Shrower Residence Hall Keber Residence Hall Structus Hall Derickson Hall A: Student Apartments Suerickson Hall B: Student Apartments Show Student Center Starson Residence Hall 		Commuter, Part-time Students
 Marquette Residence Hall Bellinger Residence Hall Silver Residence Hall Silver Residence Hall Sonotr College Residence Hall Shroyer Health Center Shroyer Health Center Chre Residence Hall Chre Residence Hall Chre Residence Hall Reher Residence Hall Reher Residence Hall Derickson Hall A: Student Apartments Derickson Hall B: Student Apartments Sonon Residence Hall Stanson Residence Hall Stanson Residence Hall 	CILITIES	and Visitors
 Bellinger Residence Hall Silver Residence Hall Silver Residence Hall Shroyer Health Center Shroyer Health Center Shroyer Health Center Sheridan Avenue Residence Hall Centre Residence Hall Veimer Residence Hall Weiner Residence Hall Weiner Residence Hall Reber Residence Hall Reber Residence Hall New Student Apartments Seriekson Hall B: Student Apartments Seriekson Hall B: Student Apartments Standont Housing 	49. Suzanne H. Arnold Gallery: Suzanne	I. Green Lot
 Silver Residence Hall North College Residence Hall Shroyer Health Center Shroyer Health Center Sheridan Avenue Residence Hall Centre Residence Hall Weimer Residence Hall Weimer Residence Hall Weimer Residence Hall Reber Residence Hall Reber Residence Hall Shrow Student Apartments Suberickson Hall B: Student Apartments Suberickson Hall B: Student Apartments Standont Housing 	H. Arnold Art Gallery, Zimmerman	C and D. overflow A + B
 North College Residence Hall Shroyer Health Center Sheridan Avenue Residence Hall Centre Residence Hall Veimer Residence Hall Weimer Residence Hall Friendship House Residence Hall Reber Residence Hall Reber Residence Hall Search Hall A: Student Apartments New Student Center Standart Housing 	Hall	Derickson Hall Residents
 21. Shroyer Health Center 22. Sheridan Avenue Residence Hall 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall A: Student Apartments 28. Derickson Hall B: Student Apartments 29. New Student Center 30. Stanson Residence Hall 	50. Kreiderheim: President's Residence	K. Blue Lot
 22. Sheridan Avenue Residence Hall 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall &: Student Apartments 28. Derickson Hall B: Student Apartments 29. New Student Center 30. Stanson Residence Hall 31. School Housing 	51. Benjamin Cantor Entrance	F. Decimated Area
 23. Centre Residence Hall 24. Weimer Residence Hall 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall A: Student Apartments 28. Derickson Hall B: Student Apartments 29. New Student Center 30. Stanson Residence Hall 31. School Housing 	ampus Entrance	D. Designateu Atea
 Weimer Residence Hall Friendship House Residence Hall Reber Residence Hall Derickson Hall A: Student Apartments Derickson Hall B: Student Apartments New Student Center Stanson Residence Hall Stanson Residence Hall 	er Plaza	Unrestricted
 25. Friendship House Residence Hall 26. Reber Residence Hall 27. Derickson Hall A: Student Apartments 28. Derickson Hall B: Student Apartments 29. New Student Center 30. Stanson Residence Hall 31. School Housing 	Plant	L. Soccer/Baseball Lot
 26. Reber Residence Hall 27. Derickson Hall A: Student Apartments 28. Derickson Hall B: Student Apartments 29. New Student Center 30. Stanson Residence Hall 31. School Housing 	nance Offices	M. Soccer Practice Lot
 Derickson Hall A: Student Apartments Derickson Hall B: Student Apartments New Student Center Stanson Residence Hall Stanson Residence Hall 	58. Middle Atlantic Conference Offices	
 Derickson Hall B: Student Apartments New Student Center Stanson Residence Hall Stanson Housing 	59. Allen Theatre and MJ's Coffeehouse	
29. New Student Center 30. Stanson Residence Hall 31. Student Housing	n Plaza	
30. Stanson Residence Hall 31. Student Housing	arden	
	3ridge	
-	ian Bridge	

٠

Lebanon Valley College

INDEX

A an domin Calandar 228
Academic Calendar
Academic nonesty policy
undergraduate
graduate
Academic procedures
undergraduate9
graduate177
Accounting program
courses
department
faculty61
Accreditation
Actuarial science program
courses
department123, 125
faculty128
Admissions
undergraduate full time4
undergraduate part time7
continuing education7
MBA181
MME186
MSE188
Administration199
Advanced placement16
American studies program
courses
department
faculty
Art and art history program
courses
department
faculty
Associate degrees
Attendance policy
Auditing policy
Baccalaureate degrees
Biochemistry and Molecular Biology program
courses
requirements
Biology program
0.1
courses
department46
faculty
Business program
courses
department
faculty
Calendar
Certificate programs
Challenge examinations
Chemistry program
courses
department64

faculty67
Citizenship education program69
CLEP16
College support staff217
Communications program
courses95
department94
faculty99
Computer science program
courses127
department123
faculty128
Concurrent courses178
Cooperative programs28
Courses, undergraduate
concurrent13
external13
repetition of13
descriptions34
Courses, graduate177
Credit for life experience
Criminal justice program
courses
department171
faculty
Degrees
undergraduate
graduate177
Dean's list
Departmental honors
Digital communications program
courses
department
faculty
Doctor of Physical Therapy Program
courses
faculty
requirements193
Early Childhood Education
courses
department
department
faculty
Earth and space science program154
Economics program
courses
department
faculty61
Education program
courses
department75
faculty92
Elementary education program
courses82
department75, 82

C 1: 03
faculty
Engineering cooperative program
English program
courses
department
faculty
English as a Second Language (ESL)
Environmental studies
cooperative program
External summer courses
Faculty directory
Finances, student4
Foreign study opportunities
Foreign study opportunities
courses
department116
faculty
General education program courses23
requirements
German program
courses
department
faculty
Grade point average
Grading system
Graduate programs
academic policies
concurrent courses
financial aid
grading system
privacy of student records
refund policy
review procedure179
time restriction policy
transfer policy
veteran's registration
withdrawal policy180
Graduation honors
Graduation requirements
DPT191
MBA
MME
MSE188
undergraduate10
Health care management program
requirements60
Health professions
cooperative programs29
Health science program
courses146
requirements146
faculty148
Historical communications program109

٠

History program
courses102
department101
faculty114
Honors
departmental19
graduation18
In-Absentia14
Independent study
Individualized major
International baccalaureate program17
International studies program
courses
department
faculty114
Internship policy
Italian
courses
Knisley teaching awards
Languages program
courses
department
faculty121
Law and society minor109
Leave of absence14
Limit of hours11
Map of campus222
Mathematical science program
courses124
department123
faculty128
MBA program
admission
courses
faculty185
requirements181
Medical technology
cooperative program
Military science program
Mission statement
MME program
admission
courses
faculty
requirements
MSE program
admission188
courses188
faculty190
requirements188
Multidisciplinary courses27
Music education program138
courses138
faculty144
requirements138

Music program132
courses
department
faculty141
Music business program137
courses
faculty141
requirements137
Music recording technology program140
courses
faculty141
requirements140
Nontraditional credit policy
Off-campus programs
study abroad
Officers, general College
Pass/fail policy
Payment plans
Phi Alpha Epsilon
Philosophy program
courses164
department
faculty
Phone Numbers
Physical therapy program
courses
faculty148, 193
Physics program
courses
courses151 department150
courses 151 department 150 faculty 153
courses
courses
courses
courses 151 department 150 faculty 153 Political science program 110 department 101, 109 faculty 114
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, 30
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, 31 pre-veterinary programs 31
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20 Profile of the College 2
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20 Profile of the College 2 Psychobiology program 2
courses 151 department 150 faculty 153 Political science program 153 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, 9 privacy of student records 9 Probation, undergraduate 20 Profile of the College 2 Psychobiology program 51
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20 Profile of the College 2 Psychobiology program 51 department 46, 50
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20 Profile of the College 2 Psychobiology program 51 department 46, 50 faculty 51
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20 Profile of the College 2 Psychobiology program 51 department 46, 50 faculty 51
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs Probation, undergraduate 20 Profile of the College 2 Psychobiology program 51 department 46, 50 faculty 51 Psychology program 51 courses 51 department 46, 50 faculty 51
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20 Profile of the College 2 Psychobiology program 51 department 46, 50 faculty 51 Psychology program 51 courses 51 department 46, 50 faculty 51
courses 151 department 150 faculty 153 Political science program 153 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20 Profile of the College 2 Psychobiology program 51 department 46, 50 faculty 51 Psychology program 51 courses 55 faculty 51
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20 Profile of the College 2 Psychobiology program 51 department 46, 50 faculty 51 Psychology program 51 courses 51 department 46, 50 faculty 51
courses 151 department 150 faculty 153 Political science program 153 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20 Profile of the College 2 Psychobiology program 51 department 46, 50 faculty 51 Psychology program 51 courses 55 faculty 51
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-veterinary programs privacy of student records 9 Probation, undergraduate 20 Profile of the College 2 Psychobiology program 51 department 46, 50 faculty 51 Psychology program 51 courses 155 faculty 156 department 155 faculty 162 Readmission policy 14
courses 151 department 150 faculty 153 Political science program 100 courses 110 department 101, 109 faculty 114 Pre-law program 30 Pre-medical, pre-dentistry, pre-weterinary programs probation, undergraduate 20 Profile of the College 2 Psychobiology program 51 department 46, 50 faculty 51 Psychology program 51 courses 51 department 155 faculty 51 Psychology program 51 courses 156 department 155 faculty 162 Readmission policy 14 Refund policy 14

Religion program
courses164
department164
faculty168
Repetition of courses
undergraduate13
ROTC
Sanskrit program119
Satisfactory academic progress11
Second bachelor's degree
Secondary education program
courses
department77, 84
faculty
Servicemembers Opportunity
Colleges (SOC)
Social studies program
Sociology program
courses
department
faculty
Spanish program
courses120
department116, 119
faculty
Special education certification program
courses
department
1
faculty
1
courses
department75, 87
faculty
Special topics courses
Study abroad
Suspension policy
undergraduate
Teacher certification for
nonmatriculated students
Teacher certification for
matriculated students
Transfer policy
undergraduate11
graduate178
Trustees, Board of196
Tutorial study courses
Veterans' services
Vickroy teaching awards219
Withdrawal procedure
undergraduate14
graduate180

PHONE NUMBERS

٠

College Offices*

)8
78
81
00
35
51
13
67
13
96
71
81
32
51
72
77
15
11
33
59
15
75
01
40
05
40
55
50
80
75
75 50
50

* Area code 717, prefix 867.

	Residence halls open for students	Martin Luther King, Jr. Holiday	No Classes	Add/Drop period begins	Day classes begin	Evening classes begin	Add/Drop period ends. Last day to	drop a course without a grade of "W"	Founders Day	Spring vacation begins	Classes resume	Mid-term grades due	Last day to change registration or	withdraw from a course	Graduation Plans due for students	graduating in May, August, and	December 2011	Fall 2011 registration begins	Fall 2011 registration ends	Easter Break begins	Classes resume	Last day for first-semester freshmen	to withdraw from a course	Day classes end	Reading Day	Final Examinations	Reading Day	Final Examinations	Evening classes end; semester ends	Senior grades due	Baccalaureate Service	142nd Commencement Final grades due	
er	Monday, noon	Monday		Tuesday, 8 a.m.	Tuesday, 8 a.m.	Tuesday, 6:30 p.m.	Tuesday, 4:30 p.m.		Tuesday, 11 a.m.	Friday, 5 p.m.	Monday, 8 a.m.	Wednesday, Noon	Friday, 4:30 p.m.		Friday, 4:30 p.m.			Friday, a.m.	Friday, 4:30 p.m.	Thursday, 5 p.m.	Monday, 6 p.m.	Wednesday, 4:30 p.m.		Wednesday, 5 p.m.		7 Friday and Saturday	Sunday	9–12 Monday–Thursday	Thursday, 9:30 p.m.	Friday, noon	Saturday, 9 a.m.	Saturday, 11 a.m. Friday noon	maan (funt t
Second Semester		17		18	18	18	25		February 15	4	14	23	1		8			×	15	21	25	4		4	5	6-7	8	-6	12	13	14	4 4	ì
Secon	January								Febru	March			April									May											
	Residence halls open for new students	Residence halls open for students	Advising Day	New Student Activities	Opening Convocation	Evening classes begin	Day Classes Begin	Add/Drop period begins	New Student Activities	New Student Activities	Add/Drop period ends. Last day to	drop course without a grade of "W"	Fall break begins	Classes resume	Homecoming/Family Weekend	Mid-term grades due	Spring 2010 registration begins	Last day to change fall registration	or withdraw from a course	Spring 2010 registration ends	Thanksgiving vacation begins	Classes resume		I ast dav for first-semester freshmen	to withdraw from a course	Dav classes end	, Reading Dav	Reading Day	Final examinations	Evening classes end	Semester ends	Final grades due	
	Saturday, 8 a.m.	Sunday, noon	Monday, 8–11 a.m., 12:30–5 p.m.	Monday, 11 a.m.–12:30 p.m.	Monday, 4:30 p.m.	Monday, 6 p.m.	Tuesday, 8 a.m.	Tuesday, 8 a.m.	Tuesday, 11 a.m.–12:30 p.m.	Thursday, 11 a.m.–12:30 p.m.	Tuesday, 4:30 p.m.		Friday, 5 p.m.	Wednesday, 8 a.m.	Friday–Sunday	Wednesday, 12 p.m.	Friday, a.m.	Friday 4:30 n.m.		Friday, 4:30 p.m.	Wednesday, noon	Monday, 8 a.m.		Friday 4:30 n m	and a constant a	Fridav. 5 p.m.	Saturday	Sunday	13–18 Monday–Saturday	Thursday, 9 p.m.	Saturday, 5 p.m.	Thursday, noon	
First Semester	August 28	29	30	30	30	30	31	31	25	September 2	7		October 8	13	15	20	November 5		6	12	24	29		December 10		10	11	12	13-15	16	18	22	
8 A	Aca	idei	mi	c (Cal	en	daı	r																	20	10	-2	01	1 C	ata	alo	2	

228 Academic Calendar

2010–2011 ACADEMIC CALENDAR

2010-2011 Catalog

Lebanon Valley College 101 North College Avenue Annville, PA 17003-1400

