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please visit our web site at *www.keystone.edu*.

## **Equal Opportunity Policy**

Keystone College is committed to providing equal education and employment opportunities for all qualified persons without regard to race, color, national origin, sex, age, religion, ancestry, sexual orientation, disability, or any legally protected classification.

Inquiries may be directed to:

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Director of Admissions  
One College Green  
P.O. Box 50  
La Plume, PA 18440-0200  
(570) 945-8000  
or 1-877-4-COLLEGE  
or [admissions@keystone.edu](mailto:admissions@keystone.edu)

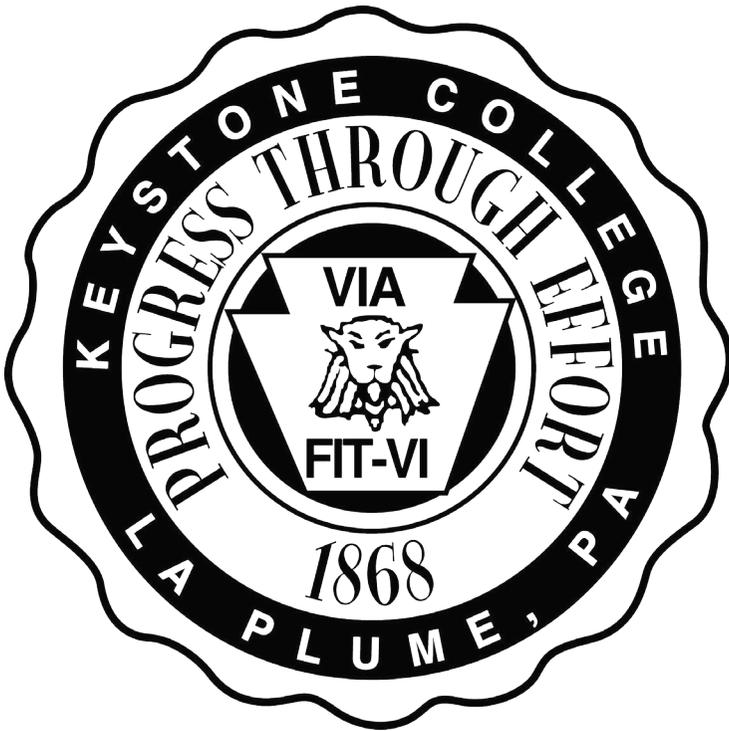
## **Right to Revise**

The provisions of this catalog are not to be regarded as an irrevocable contract between the students and the College. This catalog attempts to present information about the College for academic years 2013–2015 as accurately and completely as possible. However, for educational or financial reasons, the College reserves its right to change at any time any of the provisions, statements, policies, curricula, procedures, regulations or fees found in this catalog. Such changes will be duly published in the online catalog as they are made and will be included in the next print version of the catalog. Students, faculty and staff of the College are responsible for all information and deadlines contained in this catalog. Should changes become necessary they will be communicated at <http://www.keystone.edu/academics/catalog> and will become part of this document which is the official Keystone College catalog.

May 2013

**Keystone  
College**  
*La Plume, PA*

# Keystone College



## **2013-2015 Catalog**

One College Green  
P.O. Box 50  
La Plume, PA 18440-0200  
(570) 945-8000  
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# The Keystone College Promise

*A pledge to first-time, full-time students in good academic, financial, and social standing . . .*

- That within six months after graduating from Keystone and fulfilling the requirements of the Career Development Center, you will have received at least one job offer, or where appropriate, be accepted into a transfer or graduate program. In the event that this does not occur, we will provide you with additional courses and career counseling at no additional charge.
- A First-Year Experience to enable you to acquire the skills necessary for academic, personal, and career success, and a portfolio/resume designed to give you a competitive edge in the job market.
- A Real-World Experience that explores the world of work.
- A Bridge and a Capstone Experience combining knowledge acquired in both the classroom and the real world.
- A Pre-Major program that offers academic and career counseling to assist undecided students who need to make an informed decision about a major.
- A guarantee for on-campus housing to our first-year and sophomore students for as long as they remain full-time students.\*

*The Keystone College Promise was developed in 1997 by the faculty and staff of Keystone College to better serve our students.*

\*Housing deposits must be received by May 1 in order to be *guaranteed* housing.

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# General Information

## THE COLLEGE

### Keystone College

Keystone College is a fully accredited, independent, private college committed to helping all students attain their full potential. To achieve this goal, Keystone provides excellent instruction, close student-faculty relationships, personal attention, and individualized support services.

Keystone College received formal approval from the Pennsylvania Department of Education to begin offering baccalaureate degree programs in 1998.

“This is the beginning of a new era for Keystone College,” stated President Boehm, “as we will be able to continue our two-year programs and at the same time offer our students the opportunity to remain at Keystone to complete their four-year degrees.” Keystone offers bachelor of science degrees in accounting, natural science, business, criminal justice, early childhood education, early childhood/special education, environmental resource management, forensic biology, information technology, middle level education (language arts and social studies), organizational leadership, social science, sport and recreation management, and teaching, and bachelor of arts degrees in communication arts and humanities, psychology, and visual art.

President Boehm noted that the College’s move to baccalaureate status is the third historic event since Keystone’s establishment - the founding of Keystone as an academy in 1868, its designation as a junior college in 1934, and now its status as a baccalaureate college. “This is only the beginning of the College’s commitment to serving our students and families in the region.”

With the liberal arts as the core of our curriculum, Keystone offers diverse curricula as described in the following pages.

### History of the College

Keystone Academy was originally chartered by the Commonwealth of Pennsylvania in 1868, with instruction beginning the following year in the local Baptist church in Factoryville. In 1870, ground was broken on the current site for the Academy’s first building, Harris Hall, named after John Howard Harris, first president of Keystone. Harris Hall continues to serve Keystone College today.

The Academy flourished during its early years and established a standard of excellence that became a model in the area. Many distinguished scholars, among them the presidents of three universities, have graduated from Keystone.

At the time it was chartered, Keystone Academy was the only high school between Binghamton, N.Y., and Scranton, Pa. For over 65 years, the Academy served the secondary educational needs of the region admirably. Nevertheless, the school’s trustees came to realize that a quality college education must be available to the citizens of our area. As a result, Keystone Academy was rechartered as Scranton-Keystone Junior College in 1934. Ten years later, the name of the College was shortened to Keystone Junior College, and in 1995 to its present form, Keystone College.

During the 1960s and early 1970s, Keystone experienced a period of unprecedented growth. At that time, many of Keystone’s residence halls and its spacious library and classroom building, Miller Library, were built. The science building, Capwell Hall, was expanded, and the Hibbard Campus Center was added to Evans Hall. Keystone’s Thomas G. Cupillari ’60 Astronomical Observatory in nearby Fleetville, Pa., also began operations at that time.

Keystone’s growth and vitality continued in

the 1980s with the opening of the new multi-million dollar Gambal Athletic Center and the renovation of Keystone's historic Harris Hall.

In 1998, the College received formal approval from the Pennsylvania Department of Education to offer baccalaureate degree programs. President Boehm made the announcement of what he called a "new era" for the College at the 127th commencement exercises held in May, 1998.

In 2000, the College awarded its first baccalaureate degree and announced the receipt of its first million dollar gift. January 2001 marked the opening of the College's newest residence hall, Keystone Commons, the first new residence hall built on campus since Moffat Hall in 1970.

In 2004, Keystone dedicated the Oppenheim Family Children's Center, a state-of-the-art facility for child care and provider training.

In 2009, Gardner Hall was completely refurbished and repurposed as a facility for printmaking, book arts, and digital photography.

In 2010, the Hibbard Campus Center underwent a significant infrastructure upgrade, which included a welcoming atrium at the entrance.

Extensive renovations to Theatre in Brooks, a remodeling of Evans Hall and Fireplace Lounge, and the construction of a Rain Garden were just a few of the projects completed during the summer of 2012.

Thanks to the generous support of donors, Keystone will mark another milestone in its progressive history during the spring of 2013 when construction is completed on \$3.1 million synthetic all-weather athletic field and track. The 360' x 240' field, with an eight lane track, will be located just above Ned Boehm Field and adjacent to Keystone's Sugar Shack.

Less visible, but more impressive than its physical growth, has been Keystone's academic growth. Existing curricula programs are evaluated and revised regularly, and new curricula and degrees are added in response to changes in education and the workplace.

Classes also are offered to adult and non-traditional students through Keystone College's traditional part-time program and the Weekender schedule, which enables students to earn their degrees by attending classes approximately every third weekend. In addition, holdings in Miller Library are increased annually, and the most recent educational technology is readily available to students both on campus and through online classes.

Currently, the College offers 32 bachelor's degrees, 22 associate degrees and enrolls a diverse student body from throughout the U.S. and more than 14 countries. The College also participates in Division III, fielding 17 men's and women's teams.

Today, with its career-oriented liberal arts curriculum in place, Keystone College is a leader in education. The faculty, board of trustees, administration, and staff are committed to making your experience here something special. By choosing Keystone, with over 145 years of experience, you commit yourself to that goal as well.

## **Vision of the College**

Keystone College will transform lives by inspiring and empowering a community where learning flourishes.

## **Mission of the College**

Keystone College educates students in a liberal arts tradition that values civility, integrity, and curiosity, fostering a global perspective on cultural diversity, environmental sustainability, and life-long learning.

## **Core Values of the College**

Keystone College embraces the values of integrity, curiosity, civility, and learning.

## **The Campus**

Keystone College is nestled among shady trees on a 270-acre tract at the gateway to the Endless Mountains of Northeastern Pennsylvania. The campus is 15 miles northwest of Scranton, on U.S. Routes 6 and 11. Interstate Routes 380, 80, 81, 84, and 476 (the former Northeast Extension of the Pennsylvania Turnpike) provide easy access to Keystone from all directions. Close to Scranton, Wilkes-Barre, and Binghamton, all the facilities of three modern cities are available to Keystone students, yet the College is surrounded by small towns and countryside and has the quiet learning atmosphere of a rural campus.

Northeastern Pennsylvania provides a stimulating and enjoyable environment for Keystone. The area boasts warm weather from May through September, brisk autumn days with brilliant foliage, and snowy winters pleasing to devotees of cold-weather sports. Opportunities for hunting, fishing, swimming, and skiing are abundant.

Keystone's 170-acre Woodlands Campus offers a valuable educational resource for Keystone students, proving a perfect area for scientific and environmental studies. The area's scenic beauty, with seven miles of hiking trails, streams, and forests, is a benefit to the entire community.

Keystone's most historic building, Harris Hall, was constructed over a century ago. This building now accommodates administrative and faculty

offices and several classrooms and computer labs. To one side of Harris lies Capwell Hall, Keystone's science center. Here students will find laboratories and computer facilities for science and mathematics as well as several classrooms and faculty offices. The instrumental science labs enrich the environmental studies and biology programs. Instruments include a Varian 1200L mass spectrometer with gas chromatograph and liquid chromatograph interfaces, a Varian Vista inductively coupled plasma optical emission spectrometer, a Cary 50 UV-Visible spectrophotometer, and a Cary Eclipse fluorescence spectrophotometer. Students will have the opportunity to use these instruments in their research.

Art and theatre facilities lie on the other side of Harris Hall. Studios for ceramics, drawing, sculpture, and glass-blowing are located in the Art Center, while photography laboratories can be found in nearby Ward Hall. Adjacent to the art complex is Brooks Hall, which houses the College's theatre facilities, painting, and graphic design studios. Gardner Hall next to the Gambal Athletic Center is the new home for printmaking, book arts, and digital photography studios.

Serving as the main hub of activity on campus, the Hibbard Campus Center is home to the Student Restaurant, Giants' Den/Grill, Campus Shoppe, and Post Office. Many offices and clubs are also located in Hibbard.

The Miller Library offers more than 43,000 print books, 63,000 eBooks, 150 print subscriptions, and more than 20,000 electronic journals, newspapers & magazines in 16 databases. It houses a substantial collection of popular and educational audiovisual materials, a large assortment of streaming videos, and digital archives collections. The Library also loans out Kindles, cameras, and video cameras for specialized use and circulates laptops for in-house use. The building includes two all-purpose computer labs, including the Rita Cupillari Computer Lab, a state-of-the-art media lab, and the Linder Art Gallery, along with classrooms and faculty offices.

## **Keystone Traditions**

### **Christy Mathewson Weekend**

Each August, the College invites the community to campus in celebration of baseball great Christy Mathewson's birthday. A graduate of Keystone Academy, Mathewson was inducted posthumously into the Baseball Hall of Fame in 1936 as one of the famous "First Five," including Babe Ruth, Ty Cobb, Walter Johnson, and Honus Wagner.

### **President's Convocation**

The President's Convocation formally marks the opening of the academic year. At this time, students, administration, faculty, and staff come together to celebrate the importance of our educational mission.

### **Family Day**

This fall event allows family members to visit the campus at their leisure and participate in activities with their students. Families have the opportunity to meet with faculty and counselors, visit Keystone's facilities, and attend various social and athletic functions.

### **Homecoming**

Occurring near the midpoint of the fall semester, Homecoming provides the opportunity for our alumni to return to campus, enjoy activities, and spend time with our current students.

### **Winterfest**

Held each December, Winterfest brings members of the campus community and the local community together for a campus lighting ceremony and many more holiday festivities.

### **All-College Honors Convocation**

Held at the end of the spring semester, the campus community gathers to recognize outstanding achievement in academics and campus leadership.

### **Commencement**

Keystone College conducts one commencement ceremony for all students completing their degree requirements that academic year. This event is held in May and provides an opportunity for family and friends to proudly watch their student graduate.

## **Accreditation and Memberships**

Keystone College is accredited by the Middle States Association of Colleges and Secondary Schools Commission on Higher Education, 3624 Market Street, Philadelphia, Pa. 19104, 267-284-5000; approved by the Pennsylvania State Board of Education; and approved for veterans' benefits. It is a member of the College Entrance Examination Board, College Scholarship Service, the American College Testing Program, the Commission for Independent Colleges and Universities, the Pennsylvania Association of Colleges and Universities, Northeastern Pennsylvania Independent Colleges, the Council for Advancement and Support of Education, the College and University Personnel Association, and the Council of Independent Colleges.

## Alumni Association

The Keystone College Alumni Association has more than 17,000 members. Members include graduates of Keystone Academy, Keystone Junior College, and Keystone College. It offers opportunities for Keystone alumni to maintain strong bonds with their alma mater and with each other. The Alumni Association exists to foster loyalty and unity of its members for the College and support the College's mission and priorities. The Association is a mechanism for the exchange of ideas among alumni and acts as an official channel of communication between the alumni and the College.

The Alumni Association sponsors a mini-grant program to provide funding to student

projects. The Alumni Association also assists students through the mentor program, internships, and job shadowing experiences.

Alumni are informed of campus and alumni activities through *The Keystoneian*, the official alumni magazine, an e-newsletter, and social media outlets.

Additional information on the Alumni Association may be obtained from the Alumni Office at One College Green, La Plume, PA 18440, 1-877-4COLLEGE, option 5, or by e-mail at [alumnirelations@keystone.edu](mailto:alumnirelations@keystone.edu).

Visit the Alumni Association on the web at <http://www.keystone.edu/alumni/>.

# Admission to Keystone College

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Keystone College accepts applicants on a rolling admissions basis; however, priority is given to applications received by May 1 for fall semester applications and December 1 for spring semester applications. Admission to Keystone College is based on prior academic performance and the ability of the candidate to profit from and contribute to the academic, interpersonal, and extracurricular life of the College. Traditional-age students should submit their applications as early as possible during their senior year of high school, preferably by the end of the second marking period.

Keystone will consider applicants who meet the following criteria: graduation from an approved secondary school or the equivalent (with official transcripts or record of courses), satisfactory scores on the SAT or ACT tests, one academic evaluation, and evidence of potential for successful college achievement. Applicants who earned a high school diploma or equivalent prior to application for admission are not required to submit SAT or ACT scores.

All students are strongly encouraged to visit the campus for a personal interview, which may include a meeting with a faculty member from the student's area of interest. Portfolio interviews are required for all visual art and teaching: art education certification students.

Students may obtain an application by accessing our web site at [www.keystone.edu](http://www.keystone.edu), or by calling the Office of Admissions at 1-877-4-COLLEGE. Keystone College is also a member of the Common Application Group; therefore, students may obtain an application at [www.commonapp.org](http://www.commonapp.org).

## Application Procedures - First-Year

**Student** (a student who has attempted fewer than 12 credits of non-developmental college-level coursework)

In order to apply for admission to the College, students seeking first-year admission must submit the following:

1. Completed application with a \$30 non-refundable application fee.
2. Official high school transcript(s).
3. Official college/university transcript(s) (if applicable).
4. SAT or ACT scores sent directly to the Office of Admissions - Keystone College's CEEB codes are SAT-2351 and ACT-3602 (if applicable).
5. One academic evaluation (please use the teacher evaluation form at [www.keystone.edu](http://www.keystone.edu)).
6. Students whose primary language is not English must submit the results of the Test of English as a Foreign Language (TOEFL), an equivalent test, or make arrangements with the Office of Admissions to take the Keystone Institutional TOEFL\*\*.

## Application Procedures - Transfer

**Student** (a student who has attempted a minimum of 12 credits of non-developmental college-level course work).

In order to apply for admission to the College, a student seeking transfer admission must submit the following:

1. Completed application with a \$30 non-refundable application fee.
2. Official college/university transcript(s) from each institution attended by the student.
3. One academic evaluation (please use the instructor evaluation form provided at [www.keystone.edu](http://www.keystone.edu)).
4. Students whose primary language is not English must submit the results of the Test of English as a Foreign Language (TOEFL), an equivalent test, or make arrangements with the Office of Admissions to take the Keystone Institutional TOEFL\*\*.
5. Transfer students who are accepted on a conditional basis must submit official transcripts prior to the start of classes or they will be withdrawn from their course schedule.

## **Application Procedures - Online Student**

Please follow the same application procedures as a first-year student or as a transfer student. All submissions are the same for admissions into an online program. All online students, once accepted, are required to submit a copy of photo ID. All online degree programs use the same academic processes as the College's traditional degree programs.

## **Application Procedures - International Student** (a non-U.S. citizen and non-resident alien of the U.S.).

International students seeking full-time admission to the College must submit their completed applications by June 1 for the fall semester and November 1 for the spring semester. For detailed information on international students, please see page 13. The following documents must be submitted to be considered for full-time admission:

1. Completed application with a \$30 non-refundable application fee.
2. Official high school (secondary school) transcript(s) in English or with an official English translation.
3. Official college/university transcript(s) in English or with an official English translation (if applicable).
4. Official results of the Test of English as a Foreign Language (TOEFL) if English is not the primary language.\*\*
5. One-page writing sample or essay in English.
6. Certification of finances which guarantees financial support for the student to cover two years of full-time tuition, fees, room, and board.

\*\*A minimum 550 TOEFL (213 CBT/80 iBT) score is required for full-time admission to Keystone College degree programs. Students who are offered admission to Keystone College with a TOEFL score between 500 (173 CBT/61 iBT) and 550 (213 CBT/80 iBT) will be required to enroll in the ESL Bridge Program by taking ESL 0050 and ESL 0051 during their first semester. In addition, these students would enroll in ENGL 0050 - Critical and Analytical Reading along with two other academic courses

during their first semester. At the end of the first semester, a TOEFL test or the equivalent will be given and a 550 PBT/213 CBT/80 iBT will be necessary to continue their studies at Keystone College.

## **Application Procedures - Home-Schooled Student**

Families involved in home study programs are urged to contact the Director of Admissions for further information. Please see page 22 for information regarding financial aid and home-schooled students. Students will be asked to submit the following in order to be considered for admission:

1. Completed application with a \$30 non-refundable application fee.
2. Portfolio of all high school level work completed. This should include any essays and exams that the student has completed.
3. SAT or ACT scores sent directly to the Office of Admissions - Keystone College's CEEB codes are SAT-2351 and ACT-3602.
4. Home-school supplement to the secondary school report (can be accessed at [www.commonapp.org](http://www.commonapp.org)).
5. All home-schooled students are required to interview with a senior member of the admissions staff.

## **Certificate Programs**

Certificate programs are open to any high school graduate or holder of the General Equivalency Diploma (GED). Students should submit the following documents to the Office of Admissions for application to any certificate program:

1. Completed application with a non-refundable \$30 application fee.
2. Official high school transcript and/or official GED score.

## **Application Procedures: Early Admission Program**

Keystone offers an Early Admission Program under which qualified applicants may enroll at Keystone College after completing their junior year of high school. To qualify, applicants should

have a high ranking in their class, favorable recommendations from their principal or guidance counselor, a minimum score of 950 (critical reading and math) on the SAT or 21 on the ACT (composite), and the potential for success at the college level. Generally, the student's high school will award a high school diploma upon successful completion of either the first year at Keystone College or specific course requirements. Students are solely responsible to check with their high school to ensure they will receive a high school diploma. Acceptance is contingent upon final approval from the Director of Admissions following a required on-campus interview. **Please see page 22 for financial aid issues regarding early admission.**

### Honors Program

The Director of Admissions will invite students to participate in the honors program, once a formal acceptance to the College is granted. Students who desire to participate are encouraged to submit a completed application for admissions no later than April 1 of their senior year. In order to be eligible to participate in the honors program, students must place in the top ten percent of their high school graduating class or have a 3.3/4.0 GPA. Students must also achieve a minimum 1100 combined SAT (critical reading and math) or 24 composite ACT score. (See page 44 for more details).

### Veterans

Students who are eligible for veterans' education benefits follow the same application procedures as non-veteran students. To obtain information regarding veterans' education benefits, or to pursue eligibility for veterans' programs, contact the Veterans' Certifying Official in the Office of the Registrar at Keystone College at 1-877-4-COLLEGE, or call the Veterans' Educational Counselor of the Veterans' Administration at 1-888-442-4551.

### High School Preparation

Students intending to enroll in a bachelor's degree program\* are strongly encouraged to pursue the following high school curriculum:

|                |   |
|----------------|---|
| English        | 4 units                                     |
| Math           | 3 units (including 2 years of algebra)      |
| Science        | 3 units (including 1 year of a lab science) |
| Social Studies | 2 units                                     |
| Electives      | 4 units                                     |

*\*A student who does not meet these requirements may seek admittance to an associate degree program.*

### Part-Time Admission

To fulfill its mission of community service, Keystone offers part-time students and returning adults the opportunity to continue their education by enrolling in degree or non-degree programs. Keystone offers students the opportunity to participate in classes for credit, audit, and non-credit in both traditional and Weekender schedules (see Weekender program, page 14). Whether seeking a degree, professional development, or personal enrichment, part-time students have ample opportunities for continuing their education.

Degree-seeking students wishing to take classes on a part-time basis should follow the guidelines listed under "application procedures" on page 7. Part-time students are not required to take the SAT or ACT. Non-degree seeking students may attempt up to 12 credits as a part-time student prior to making application to the college. See page 10 for further information regarding non-matriculating students.

Degree-seeking, part-time students may be eligible for financial aid and should refer to financial aid information on page 21.

### Admissions Decisions

Keystone practices "rolling admissions." Upon receipt of all required materials, the Admissions Committee will evaluate the student's potential for success at Keystone and advise the applicant. A personal interview may be required. Notification is generally given

within two weeks of receipt of all required credentials.

## **Provisional Acceptance**

Freshmen Keys Program: In special cases where students have not performed up to their potential and some concern exists as to their ability to succeed in college, they may be offered a provisional acceptance to the College. These students must participate in Keystone's Keys Program, which provides special academic reinforcement services. Freshmen students who are provisionally admitted to the College must achieve a 2.0 GPA at the end of their second semester. Failure to do so will result in academic suspension from the College.

These students are required to participate in tutoring and may require additional semesters to finish their degrees.

Transfer students who have not performed up to their potential at their college or university may be offered provisional acceptance to the College in some circumstances. These students must achieve a 2.0 GPA at the end of their first semester. Failure to do so will result in academic suspension from the College.

Additionally, both provisionally admitted freshmen and transfer students are not permitted to take more than 16 credit hours during their first semester.

## **Readmission**

### **Full-Time, Part-Time, and Weekender Students:**

Students who have "stopped out" for at least one semester (or for Weekender students, two trimesters), excluding summer sessions, must contact the Director of Admissions to be readmitted to the College. All students who desire to be readmitted must be in good academic, social, and financial standing with the College. The following guidelines will apply to students wishing to be readmitted:

1. The Catalog of record for a student requesting to be readmitted within five

years of last attendance will be the most recent one, unless otherwise requested and approved by the curriculum coordinator.

2. A student requesting to be readmitted after five or more years of last attendance will need to make formal application to the College as a new student through the Office of Admissions. The student's Keystone College transcript will be reviewed as if he/she were a new transfer student. The Catalog of record will be the current Catalog.
3. All students desiring to be readmitted who have taken courses at other institutions since their last date of attendance at Keystone should have their official transcripts from the institution of attendance sent to the Keystone College Office of Admissions. Readmission will not be granted until official transcripts have been received.

## **Non-Matriculating**

Students who have not yet received their high school diploma or equivalency or wish to take classes for transfer to another college/university may attempt up to 12 credits at Keystone College prior to making formal application for admission. Students who have not yet received their high school diploma or equivalency and who are enrolled in a concurrent dual enrollment agreement may attempt to take 24 credits prior to making a formal application to the College.

Students who have attempted 12 credits and do not wish to matriculate at Keystone College may register for courses directly at the Office of the Registrar, letting them know their intention is for personal enrichment or professional growth only.

Students whose status is non-matriculating or personal enrichment are not eligible for federal or Pennsylvania state aid.

## Students with Learning Differences

In order to provide the greatest opportunity for student success, Keystone College accepts only those students who have developed the compensatory skills necessary to perform at a satisfactory level using the College's current array of support services. Keystone does not have a comprehensive support program specifically designed for students with learning differences. We encourage those students who have documented learning differences to disclose this information to their instructors as soon as possible.

Appropriate documentation of the specific disability will be required and reviewed by the Coordinator of Disability Services before the student can be granted any accommodations.

## Transferring Credits to Keystone College

Coursework completed at another regionally accredited institution, credits earned through advanced placement, and credits earned by assessment may be applied toward a Keystone College degree. The following conditions apply:

1. Transfer students are required to complete Keystone's core and distribution requirements, as well as those of the major. These requirements may be met through Keystone coursework or through reasonable substitution of transferred credit determined through transcript evaluation or articulation agreements. Students with an associate and/or bachelor's degree from a regionally accredited institution may be exempt from some core courses as deemed by the Registrar.

2. Up to 32 credits may be applied for students seeking an associate degree and up to 75 credits may be applied for students seeking a bachelor's degree. Students who have already earned a bachelor's degree may apply up to 90 credits toward another bachelor's degree.

3. The final 32 credits earned toward a degree cannot include more than 9 credits earned through transfer of credits from another institution.

4. Transfer credit will not be awarded if the

grade earned is lower than a "C."

5. Grades of "P" or "S" are not accepted for credit.

6. Transfer students entering with fewer than 24 earned college credits will be required to participate in a First-Year Seminar (FYS) their first semester.

7. Transfer credit for a course taken ten or more years prior to the request is generally not given. Exceptions will be made only with the approval of the Registrar, and with input from the appropriate academic division chairperson. Requests for exception to the ten-year rule should be made to the Registrar.

8. Quality points and transfer credits are not included in the student's grade point average at Keystone.

9. A Keystone student who wishes to take courses at another institution and transfer them back to Keystone should consult with the Office of the Registrar prior to enrolling to ensure that the credits will transfer.

10. Transfer credits will not count as a course repeat with regard to the GPA calculation.

## Articulation Agreements for Students Transferring to Keystone

Keystone College has entered into articulation agreements with Bucks County Community College, Camden County College, Harrisburg Area Community College, Johnson College, Lackawanna College, Luzerne County Community College, and Northampton Area Community College for the transfer of their credits, in related majors, to Keystone's baccalaureate degree programs. These agreements normally grant junior status to students and usually enable completion of the bachelor's degree within four regular semesters as full-time students. Details of these agreements are available in the Office of Admissions and on the College Web site.

## Advanced Placement

Special advanced coursework completed in high school, which is treated as transfer work,

may receive college credit and be applied toward a Keystone College degree. An examination of the College Entrance Examination Board (CEEB) Advanced Placement Program must be taken and a score of 3 or higher obtained.

### College-Level Examination Program (CLEP)

Examinations of the College-Level Examination Program (CLEP) will be treated as transfer work. Credit will be awarded only for successful completion of assessments that cover the same material as covered in subjects that are offered at Keystone College. Consult the Registrar prior to taking CLEP examinations for credit with appropriate faculty member approval.

### Correspondence Courses

Courses taken by correspondence through a regionally accredited college or university program will be treated as transfer credit. Credit for other types of correspondence courses may be earned by special examination.

### Prior Learning Assessment (PLA)

Prior Learning Assessment is a way for a student to document learning acquired outside of a college classroom and for evaluating that learning as a way to earn college credit. This process recognizes many ways in which learning can occur and avoids duplication of learning experiences for which a student can demonstrate knowledge and competence. The breadth and depth of experiential learning activities can be illustrated through information provided in a portfolio. The portfolio includes documentation of knowledge gained and competencies acquired as a result of the experiences. The PLA portfolio will identify that the learning is publicly verifiable, of college-level quality, theoretically based, generally applicable beyond the situation in which it was learned, and related to the student's academic goals and degree program.

After attending a required introductory PLA workshop, the student will submit an application of intent to a faculty adviser. The adviser will secure the most appropriate faculty evaluator

for the student. The student must then submit an application for portfolio review and portfolio to the faculty evaluator within the semester, have experience in the field in which he or she is attempting to gain credit by PLA, and pay all fees associated with the evaluation and credit award. A student may earn a maximum of 32 credits toward an associate degree or 64 credits toward a bachelor's degree through PLA. The transcription of PLA credits will occur upon the student's completion of 15 credits earned at Keystone, with a minimum GPA of 2.00. All PLA credits must be completed and transcribed prior to registering for GRAD 101 or 201. The mandatory introductory workshop fee is \$10, and the credit posting fee is \$50 per credit.

### ACT 120

Keystone College has established an agreement with various law enforcement agencies of the Commonwealth of Pennsylvania to award college credit for the completion of the ACT 120 program. The individual agreements and course/credit equivalents, based upon hours completed, are listed below:

| 480 Hours                                   | 580 Hours  | 760 Hours   |
|---|--|---|
| CJ 1115<br>CJ 1125<br>FYS 1110<br>PHED 1110 | CJ 1115<br>CJ 1125<br>FYS 1110<br>COMM 1125<br>PHED 1110 | CJ 1115<br>CJ 1125<br>FYS 1110<br>COMM 1125<br>PHED 1110<br>Curriculum Elective |
| 12 Credits*                                 | 15 Credits*  | 18 Credits*   |

\*Credit for CJ 2710 may be awarded based on evaluation of Prior Learning Assessment.

### Validating High School Diplomas

If the Offices of Admissions or Financial Assistance and Planning have reason to question the validity of an applicant's high school diploma, the College is required by the Department of Education to take additional steps to ensure its validity. In compliance with rule 668.16, the following steps will be taken to ensure validity of the student's diploma:

1. Review the documents presented by the student.

2. Contact the school or any individual listed on the documentation.
3. Request direct written communication (preferably an official transcript) from the school validating graduation of the student in question.

More detailed information can be obtained from the Offices of Admissions and Financial Assistance and Planning.

## International Students

The Center for Global Learning staff assists international students with immigration regulations and provides additional support while at Keystone College. International students may be required to provide additional documents if English is not their first language. For more information regarding services, visit the web site at [www.keystone.edu](http://www.keystone.edu), click on Admissions and then International Students.

## Visa Requirements

Keystone College is authorized to issue I-20 forms (Certificates of Eligibility) through SEVIS for full-time degree programs. The International Student Services Office will issue an I-20 to accepted students only after the College receives a \$200 enrollment deposit and all necessary documents. After receiving a student visa (F-1) from an American Embassy or Consulate, students may enter the United States for the approved program period.

## Campus Housing and Meal Plans

International students are required to live on campus during their first semester of study in order to enhance their social experience while in the United States. On-campus housing ranges from traditional residence halls to suite-style living. Keystone offers a separate residence hall for women and coeducational halls with large and small occupancies.

Keystone offers a 19-meal-per-week plan, which includes breakfast, lunch, and dinner. A variety of meal choices is available each day, along with casual dining in our student lounge and deli cafe located in the Hibbard Campus Center.

## Fees for Full-Time International Students

Fees for full-time international students are the same as those for any full-time student. Please see the section on full-time fees beginning on page 17 of this catalog. Information on making financial arrangements may be found on page 18.

## Scholarships for Full-time International Students

Keystone College awards merit scholarships based on academic performance. Students should submit a completed application for admission as early as possible in order to qualify for and receive a merit scholarship. International students are responsible for all costs associated with housing, meal plans, personal expenses, fees, and tuition balances not covered by merit scholarships.

For more information, see “Scholarships and Awards” on page 30.

## Summer Sessions

Keystone offers two five-week summer sessions during which an extensive selection of courses is offered. The two summer sessions have been designed to benefit a wide audience including high school seniors and graduates wishing to get a head start on college work, and undergraduates desiring to accelerate progress toward a degree, remedy academic deficiencies, or ease some of the pressure of the regular scholastic term. Summer sessions are also helpful for adults interested in professional advancement or expanding their areas of knowledge.

## Intersessions

Keystone College typically offers two intersessions. The first intersession is held at the beginning of January and the second at the end of May. These sessions offer courses in an intense, compressed format. Intersessions run for approximately five to eight class days depending on the academic calendar. Information regarding course offerings and dates is available each year and can be accessed through the Web site at [www.keystone.edu](http://www.keystone.edu).

## Weekender General Information

Students may earn academic credits in the Keystone College Weekender Programs offered on the La Plume campus and Towanda Center.

Weekender was established in 1975 for students who wish to pursue an associate or bachelor's degree while maintaining a job, family, and social responsibilities. Classes are held on seven weekends, every other weekend on average, during a four-month trimester.

Three terms are held each year beginning in September, January, and May. Students may attend each trimester or choose those which are best suited to their needs and responsibilities. Students receiving financial assistance should review the academic progress requirements on page 27 and speak with a Financial Assistance and Planning Office staff member before determining whether to take courses in a given trimester. New students should schedule an

informational interview with the appropriate Weekender Site Coordinator prior to starting classes.

Weekender is designed to allow students to earn an associate degree in as little as two and two-thirds years or a baccalaureate degree in as few as five years by taking three courses per trimester. Weekender coursework may be combined with on-line, evening, intersession, or traditional day classes.

Students attending Weekender receive a minimum of six hours of classroom instruction per course each weekend that classes are held. Classes are scheduled Fridays, Saturdays and Sundays.

All courses and curricula require sufficient enrollment to be offered.

## Weekender Majors

### La Plume

#### Bachelor's Degrees:

Accounting  
Business  
Communication Arts and Humanities  
Criminal Justice  
Early Childhood Education (Pre K-4)  
Early Childhood Education (Pre K-4)/  
Special Education (Pre K-8)  
Information Technology  
Middle Level Education: Language  
Arts (4-8)  
Middle Level Education: Social  
Studies (4-8)  
Organizational Leadership  
Public Health  
Psychology  
Social Science  
Teaching: Child and Family Studies (non-  
certification program)  
Teaching: Mathematics Education (7<sup>th</sup>-  
12<sup>th</sup> grade)  
Teaching: Social Studies Education (7<sup>th</sup>-  
12<sup>th</sup> grade)

#### Associate Degrees:

Business Administration  
Communications  
Criminal Justice  
Early Childhood  
Education (Pre K-4)  
Information Technology  
Liberal Studies

#### Accelerated Certificates

#### Coursework available toward:

Art Education  
Early Childhood Education  
Early Childhood Education/  
Special Education  
Math Education  
Social Studies Education

## **Towanda**

### **Coursework available toward:**

#### **Bachelor's Degrees:**

Accounting  
Business  
Criminal Justice  
Early Childhood Education (Pre K-4)  
Early Childhood Education (Pre K-4)/  
Special Education (Pre K -8)  
Middle Level Education Language  
Arts (4-8)  
Middle Level Education Social  
Studies (4-8)  
Organizational Leadership  
Public Health  
Psychology  
Social Science  
Teaching: Child and Family Studies  
(non-certification program)

#### **Associate Degrees:**

Business Administration  
Communications  
Criminal Justice  
Early Childhood  
Education (Pre K-4)  
Liberal Studies

#### **Accelerated Certificates:**

Art Education  
Early Childhood Education  
Early Childhood Education/  
Special Education  
Math Education  
Social Studies Education

# Financial Information

## TUITION AND FEES

### Full-Time Tuition

**\$10,150.00 per semester**

Full-time tuition is a flat-rate which allows students to take from 12 to 20.5 credits per semester in any College delivery system or venue. This tuition does not cover summer sessions or intersessions. Credits in excess of 20.5 per semester incur charges at the current per credit rate.

### Part-Time Tuition

**\$400.00 per credit**

Students taking .5 to 11.5 credit hours per semester in any College delivery system or venue will be billed at the per credit rate of \$400. Part-time students may be eligible for some financial aid, but are not eligible for institutional grants.

## ROOM AND BOARD

### Room and Board

**\$4,900.00 per semester**

Students wishing to live on campus must be full-time students taking a minimum of 12 credits per semester. Room and Board rate noted above is based on double room rate in any residence hall, and the 19 meals per week board plans. All resident students must participate in a meal plan.

### Resident Student Board Plans

|              |                                    |            |
|--------------|------------------------------------|------------|
| 19 meal plan | (includes 100 KC\$ Dining Dollars) | \$2,425.00 |
| 14 meal plan | (includes 100 KC\$ Dining Dollars) | \$2,280.00 |
| 10 meal plan | (includes 200 KC\$ Dining Dollars) | \$2,220.00 |

\*First-year students are required to have the 19 meal per week meal plan; sophomores, juniors, and seniors may choose between the 19 meal plan and 14 meal plans. Seniors only may choose the 10 meal plan.

## COMMUTER STUDENTS

Commuter meal plans are available to both full-time and part-time commuter students.

### Commuter Student Meal Plans

|               |   |          |
|---------------|---|----------|
| 5 Square Plan | (includes 75 meals per semester, 100 KC\$ Dining Dollars) | \$640.00 |
| On the Move   | (includes 30 meals per semester, 100 KC\$ Dining Dollars) | \$360.00 |

*Note: All of the expenses apply to a semester. To determine the cost of the entire academic year, multiply the appropriate number by two.*

## ADDITIONAL FEES

**Deposit:** Keystone requires students to pay a non-refundable advance deposit as a sign of firm intent to attend the College. New resident students pay a \$200 non-refundable enrollment deposit, and for new commuting students, it is \$100. This deposit is applied toward tuition, fees, and/or room and board charges when the student enrolls. Returning resident students are required to pay a \$350 non-refundable advance deposit each year to participate in room selection and course selection for the upcoming academic year. Returning commuting students are required to pay a \$100 non-refundable advance deposit each year to participate in course selection for the upcoming academic year. The College reserves the right to accept deposits only from returning students whose student account is in good financial standing.

**Security Deposit:** Each resident student is required to pay a security deposit of \$200 per year. This deposit is applied toward damage charges that may be billed to the student. The unused portion of the security deposit is refunded.

**Health Insurance:** All students taking 12 or more credits must have health insurance. Proof of health insurance coverage must be presented to the Health Services Office each year PRIOR to the beginning of classes. Students will be billed for health insurance unless waived by timely presentation of proof of appropriate

insurance coverage. The cost of the insurance obtained through the College depends on the rate charged by the carrier for that year. Students who do not show proof of insurance prior to the start of classes will not receive any refunds on the health insurance premiums from Student Business Services.

## REQUIRED FEES

**Application Fee:** \$30 - The application fee is used to defray costs of processing an applicant's credentials for admission to the College.

**New Student Orientation (NSO) Program Fee:** \$150 - The NSO program fee helps defray the cost of expenses incurred during the multi-day Keystone Compass program. Students who do not participate in Compass are still charged this fee.

**Registration Fee:** \$350 - The one-time registration fee is charged at the beginning of a full-time student's first term at the College. This fee helps pay the expenses for the student's initial Mapping Day and the registration process necessary at the beginning of each term.

### Comprehensive College Fee

The Comprehensive College Fee (\$450 per semester) for **full-time students** is billed to all students taking 12 or more credits at Keystone College. Allocation of fees is determined by the College administration to offset costs of operating expenses for student government and clubs, publication of the yearbook, special student services such as trips and excursions, and the purchase of new equipment to improve the overall activities at the College. The fee is used to provide students with enhanced services such as, but not limited to, telecommunications, computer network connectivity, personal e-mail address with web access, Moodlerooms, multimedia equipped classrooms, computer labs offering the latest software from Microsoft® and other vendors, campus-wide Internet access, and library references material access.

|  |                       |
|--|-----------------------|
| Full-time students<br>12 credits or more | \$450<br>per semester |
| Part-time students<br>6.0-11.5 credits   | \$275<br>per semester |
| Part-time students<br>.5-5.5 credits     | \$100<br>per semester |

**Part-time students** taking less than 12 credits are billed the Comprehensive College Fee based on the number of credits they are taking at Keystone College. Allocation of fees is determined by the College administration to offset costs of operating expenses for student government and clubs, publication of the yearbook, special student services such as trips and excursions, and the purchase of new equipment to improve the overall activities at the College. The fee is used to provide students with enhanced services such as, but not limited to, telecommunications, computer network connectivity, personal e-mail address with web access, Moodlerooms, multimedia equipped classrooms, computer labs offering the latest software from Microsoft® and other vendors, campus-wide Internet access, and campus-wide references material access.

**Books and Supplies:** \$950 - The estimated cost of books and supplies for a full-time student is \$950 per semester. However, costs vary according to major.

## MISCELLANEOUS FEES

**Course Lab or Supplies Fee:** Some courses entail special services or use supplies for which fees are assessed. Most art studio courses require a modeling and/or supply fee; most courses in culinary arts, early childhood, hospitality, or science require a supply fee; most courses involving computer usage require a supply fee; and some physical education activities require a fee to cover special costs incurred. These fees vary from course to course; see course descriptions beginning on page 202 for specific fees.

**Graduation Fee:** \$200 - This fee helps to defray the cost of evaluating the student's academic record to determine eligibility for graduation, purchasing the student's graduation cap and gown, ordering the student's diploma, and providing the commencement program and the graduate reception. Students who are excused from attending graduation by the President of the College will receive their diplomas in the mail and may request that their caps and gowns be mailed if they wish. (There is no reduction in the fee for graduates who do not attend commencement.)

The College also levies charges for special situations. (These may apply to full- and part-time students.) These charges are listed below:

| Miscellaneous Fee              | Cost          | Special Considerations   |
|--------------------------------|---------------|--|
| Administrative Schedule Change | \$50          | Student does not submit forms when dropping/adding class(es)       |
| Change of Schedule             | \$10          | After first 10 days of semester                                    |
| Course Audit                   | \$215/credit  | See page 47 of this catalog.                                       |
| Credit by Assessment           | \$75/credit   | See page 47 of this catalog  |
| Transcript                     | \$5           | See page 49 of this catalog  |
| Vehicle Registration           | \$50/semester | Parking a vehicle on campus  |
| Late Registration              | \$25          | Registration after scheduled registration period has ended         |
| Housing Assignment Change Fee  | \$25/request  | Student requests a change of housing assignment in residence halls |

*The Trustees of the College reserve the right to change fees whenever such action is deemed advisable. Every effort will be made to notify students and parents well in advance of any major changes in cost.*

## STUDENT INVOICES/ CLASS SCHEDULES

The Office of Student Business Services, located on the first floor of Ward Hall, is responsible for billing and collection of all tuition and fees.

The annual billing cycle for a student taking classes in the traditional schedule is based on two semesters beginning in August and January of each academic year. Students taking classes in the Weekender schedule have a billing cycle based on trimesters beginning in September,

January, and May of each academic year.

Instruction for payment of semester/trimester/program bills is sent by mail to all registered students, with due dates indicated. Fall semester bills are sent in June for registered students, and weekly thereafter,\* depending on the date of registration.\* Spring semester bills are sent in November for registered students, and weekly thereafter if changes occur. Students who do not receive a semester bill are responsible for notifying the Office of Student Business Services by calling (570) 945-8369 or by e-mailing studentaccounts@keystone.edu. Student account information is also available to students via MyKC.

It is the student's responsibility to obtain, complete, and return the Financial Responsibility Agreement prior to the beginning of each academic year at Keystone College. Any outstanding balance which remains on a student's account after deduction of financial aid, grants, scholarships, and loans should be paid in accordance with the billing instructions. A specific due date is publicized on billing statements. Following registration, a monthly statement will be sent to each student's home address, generally the second week of the month. This statement will show any outstanding balance, as well as charges incurred for that month, due upon receipt. In addition, for all balances not paid in full when due, the student is responsible for all costs incurred by the College to collect such debt. This may include, but is not limited to, collection costs, litigation/attorney fees, and court costs.

Students who are unable to pay in full by the stipulated time may contact the Office of Student Business Services prior to the bill's due date to review the College's payment plan options.

Payment of the term bill may be made in person or by mail. Checks or money orders should be made payable to Keystone College. The College also accepts VISA, MasterCard, Discover, and American Express credit cards.

Cash should not be sent through the mail.

Students wishing to wire transfer their payment to the College should use the following account information:

PNC Bank

ABA # 031300053

Scranton, PA 18501

For further credit to Keystone College

Account # 9009700944

A \$15 charge for each wire transfer will be reflected on the student's account as a "bank charge."

Questions relating to any charge appearing on a monthly billing statement should be brought to the attention of the Office of Student Business Services within five days of receipt of the billing statement.

The full payment of each term's bill is a prerequisite for official enrollment for the term, for registration in a new semester, for retention of on-campus housing, for receipt of credit for coursework, for participation in commencement exercises, and for issuance of grade reports and transcripts.

*\*If changes occur or initial registration has occurred.*

**Returned Checks:** A service charge of \$25 is assessed to the student's account if a check presented for payment is returned to the College as uncollectible.

## **FINANCIAL CLEARANCE**

Financial clearance is obtained by students through Student Business Services when their student accounts are considered to be in good financial standing. Financial clearance is needed to register for courses, apply for student housing, maintain course registration and housing assignments, receive official College transcripts, participate in commencement, and receive a diploma.

The College reserves the right to terminate the registration of a student who has an outstanding financial obligation to the College, after sufficient notice has been given to the student. The College reserves the right to

hold transcripts and diplomas as a result of nonpayment of obligations and to forward delinquent accounts to collection agencies and to levy a collection fee. Holds are removed upon satisfaction of the outstanding obligation. The terminated student may petition for reinstatement of enrollment by satisfying the indebtedness to the College and paying the \$50 reinstatement fee. The College does not guarantee that the previous course selections will be available upon reinstatement.

The privileges of registration, advance registration, receipt of a diploma at commencement, and receipt of transcripts of record are barred to students having outstanding obligations to the College. Obligations may take the form of unpaid monies, unreturned or damaged library books and equipment, parking fines, other charges for which a student may become legally indebted to the College, and failure to meet immunization requirements or to comply with disciplinary sanctions or administrative actions.

## **WITHDRAWALS, REFUNDS, AND CREDITS**

Withdrawing from or dropping a course may adversely affect a student's financial aid eligibility. All students should speak with a member of the Financial Assistance and Planning Office prior to withdrawing from or dropping a course.

A student seeking to withdraw from the College during a semester must schedule an appointment with the Retention Assistant to complete an exit interview and begin the withdrawal process. Merely notifying an instructor or academic adviser is not sufficient. Once a withdrawal is authorized by the Dean of Academic Affairs, tuition refunds will be made as outlined below.

A student in the Weekender schedule seeking to withdraw from Keystone College during a trimester must submit written notice of withdrawal to the Assistant Director of Adult Admissions or the Towanda Center Coordinator. Merely notifying an instructor

or academic adviser is not sufficient. Tuition refunds will be calculated according to a percent of payment period completed when a withdrawal is authorized. Upon completion of the refund process any outstanding balance due to Keystone College is the responsibility of the withdrawing student. Contact the Student Business Services Office with any questions.

A student who leaves the College due to dismissal for disciplinary reasons is not entitled to any refund. No credits on any charges will be made to students who have been suspended or expelled from the residence halls and/or the College. Room charges are not refunded at any time, and board credits are prorated as of the end of the calendar week of withdrawal.

### **Refund Policy**

If a student completes the official withdrawal process before the first day of classes for the payment period, Keystone College will refund 100% of all tuition, lab fee(s), activities fee, health fee, technology fee, and room and board charges. Keystone College will return all respective Title IV awarded monies, in full, to the appropriate program accounts.

When a student withdraws on or after the first day of classes, Keystone College will refund the difference between any amount paid toward tuition and board charges (which includes financial aid payments) and the amount of charges retained on the student's account for the period of the student's attendance. The charges retained on the student's account are in accordance with the return of Title IV Refunds Policy, as directed by federal regulations.

A student who withdraws on or before the 60% point of time in the period of enrollment, for which the student has been charged, is only eligible to receive the amount of Title IV Federal Aid earned during his or her actual enrollment. Keystone College must, per federal regulations, calculate a refund of Title IV Federal Aid to be returned under the federal refund calculation. Refunds of tuition and board, if applicable, for

students as a result of an official withdrawal will be made according to the appropriate tuition refund schedule. These schedules are listed further in this section.

The room charge is not refundable due to a withdrawal; however, board is prorated as of the end of the calendar week of withdrawal. Institutional fees are not refunded. An unofficial withdrawal will be calculated at a maximum refund of 50%.

The date used to calculate the refund is the official withdrawal date as determined by Keystone College. Backdating withdrawal dates is not permissible.

After the last day to add classes, no reduction is granted to a student who withdraws from one or more courses but remains registered in others. No adjustment is made from full-time to part-time status after the add deadline.

The Title IV portion of the refund will be distributed to the Title IV programs, up to the full amount received from each program for the enrollment period in question. Title IV funds are returned to the appropriate accounts in the following order:

1. Direct Unsubsidized Loan
2. Direct Subsidized Loan
3. Perkins Loan
4. Direct Plus Loan
5. Federal Pell Grant
6. Academic Competitiveness Grant (ACG)
7. National SMART Grant
8. FSEOG
9. Other Title IV Programs

Written examples of the applications of these refund policies are available, upon request, from the Financial Assistance and Planning Office.

### Tuition Refund Schedules Traditional Fall and Spring Semesters

| Segment of Semester              | Refund    |
|----------------------------------|-----------|
| Prior to the start of classes    | 100%      |
| Up to the end of the first week  | 90%       |
| Up to the end of the second week | 75%       |
| Up to the end of the third week  | 60%       |
| Up to the end of the fourth week | 45%       |
| Up to the end of the fifth week  | 25%       |
| Beyond the fifth week            | No Refund |

### Weekender Trimesters

| Segment of Trimester                           | Refund    |
|--|-----------|
| Start of Weekender #1 to start of Weekender #2 | 75%       |
| Start of Weekender #2 to start of Weekender #3 | 50%       |
| After the start of Weekender #3                | No Refund |

### Summer Sessions

| Segment of Session              | Refund    |
|---------------------------------|-----------|
| Up to the end of the first week | 50%       |
| Beyond the first week           | No Refund |

## Financial Assistance and Planning

Keystone College is committed to helping as many eligible students as possible earn their degrees at our institution. To achieve this goal, Keystone has established a broad and effective financial aid assistance program. In cooperation with various federal and state agencies, and drawing substantially upon its own resources, Keystone makes a combination of grants, loans, work-study opportunities, scholarships, and awards available to its students.

The Free Application for Federal Student Aid (FAFSA) may be completed online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

Further information regarding financial aid may be obtained by calling (570) 945-8134 or 1-877-4COLLEGE, option 2, or by writing to: Financial Assistance and Planning Office, Keystone College, One College Green, PO Box 50, La Plume, PA 18440-1099, or by e-mailing: [financialaid@keystone.edu](mailto:financialaid@keystone.edu).

### Eligibility

To be eligible for financial assistance, full-time students must demonstrate need and must be enrolled in a minimum of 12 semester hours. The amount of need is determined by filing the Free Application for Federal Student Aid (FAFSA). Residents of Pennsylvania also are expected to apply for the Pennsylvania State Grant by filing the FAFSA before May 1, the state grant deadline. April 1 is the priority deadline for Pennsylvania residents. International students are not eligible for state and/or federal financial programs. However, Keystone does offer institutional financial aid to selected international students.

Please contact the Financial Assistance and Planning Office for details.

## Enrollment Status

Students enrolled for at least 12 credits per semester are considered “full-time” for that semester.

Students enrolled for at least 9 credits but less than 12 credits per semester are considered “three-quarter time” for that semester.

Students enrolled for at least 6 credits but less than 9 credits per semester are considered “half-time” for that semester.

Students enrolled for less than 6 credits per semester are considered “less than half-time” for that semester.

## Early Admission and Home-Schooled Students

Early admission students (high school seniors who have not yet graduated from high school) and home-schooled students are not eligible for PHEAA state grants or any Title IV funds until they actually have their high school diplomas or GED certificates. Please contact the Office of Financial Assistance and Planning for additional information.

## Deadlines

It is recommended that all students who wish to be considered for financial assistance file their FAFSA by April 25, Keystone’s priority deadline. Applications received after this date will be processed as funds are available. Keystone’s Federal School Code is 003280.

## FINANCIAL ASSISTANCE PROGRAM DESCRIPTIONS

### Federal Aid Programs

Students must meet the following requirements to be considered for any of the federal financial aid programs:

- \* Must have a high school diploma or GED.
- \* Must be enrolled as a matriculating student in an eligible degree program or a certificate program.

- \* Must be a U.S. citizen or eligible non-citizen
- \* Must maintain satisfactory academic progress.
- \* Must not already hold a bachelor’s degree (this requirement does not apply to the Stafford, Federal Work Study, or Perkins Loan program).
- \* If required, must be registered with Selective Service.
- \* Must not owe any refund on Federal Aid and not be in default on Federal education loans.
- \* Must not have been convicted of any illegal drug offense that would make you ineligible for Federal Aid.

### Federal Pell Grant

The federal Pell Grant is considered to be the foundation of financial aid. Eligibility for this program is determined before aid from other sources (federal and non-federal) is awarded. The Pell Grant does not have to be paid back, unlike loans. Awards are made according to the EFC calculated for the student. The Pell Grant for the 2013-2014 academic year (July 1, 2013 to June 30, 2014) maximum award is \$5,645. The amount you receive will depend not only on your demonstrated financial need, but also on your costs to attend Keystone College, your status as a full-time or part-time student, and your plans to attend Keystone College for a full year or less.

### Supplemental Educational Opportunity Grant (SEOG)

The Supplemental Educational Opportunity Grant or SEOG is a grant awarded to students with exceptional financial need. Students who are Pell Grant eligible with the lowest EFCs will be the first to receive SEOGs, which do not have to be paid back. Keystone College bases its SEOG awards on the EFC, demonstrated financial need, and funding available in the program.

## **Federal Carl D. Perkins Loan**

The Carl D. Perkins Loan is a low interest (5%) loan that is administered by Keystone College for students who demonstrate financial need. This loan is made through the Financial Assistance and Planning Office.

Keystone College is the lender and the loan is made with federal funding. You must repay this loan. Repayment begins nine months after graduation, withdrawal, or change to less than half-time status.

Interest accrues in the student's name beginning in the tenth month after the student ceases to be enrolled on at least a half time basis. The maximum repayment schedule is ten years.

## **Federal Direct Loan Program**

The Direct Loan allows students to borrow in their own name and requires no credit evaluation. A Free Application for Federal Student Aid (FAFSA) is required for all loan applicants. On the FAFSA, indicate that you are interested in student loans. The U.S. Department of Education is the lender. Direct loans have a fixed interest rate. The subsidized direct loan interest rate for the academic year is 3.4% as of the 2012-2013 academic year. The direct loan can be either interest subsidized (federal government does not charge in-school and grace period interest payments) or unsubsidized (student makes interest payments during in-school and grace periods or has interest added on to the amount borrowed and repaid with principal after grace period). Eligibility for interest subsidy is based on demonstrated financial need as determined by the federal needs analysis when the FAFSA is filed. Interest does not accrue nor does repayment begin on subsidized direct loans until termination of college enrollment on at least a half-time basis. Interest accrued during in-school and the grace period is paid by the federal government.

The aggregate maximum for undergraduate study is \$31,000 for dependent students and

\$57,500 for independent students. Of these maximums, no more than \$23,000 can be subsidized.

Students will be required to complete an electronic Federal Direct Loan Application/Master Promissory Note (MPN). Further instructions are available on the Keystone College website under Financial Aid.

Annual loan limits are determined by grade level and if a student is dependent or independent. For the academic year 2012-2013 the annual loan limits are as follows:

### **Dependent Student Loan Limits are:**

- \$2,625 for preparatory coursework for enrollment in an undergraduate program
- \$5,500 for a freshman (0 to 29 credits completed) and at least \$2,000 of this amount must be in unsubsidized loans
- \$6,500 for a sophomore (30 to 59 credits completed) and at least \$2,000 of this amount must be in unsubsidized loans
- \$7,500 for a junior and/or senior (60 credits complete or more) and at least \$2,000 of this amount must be in unsubsidized loans

### **Independent Student Loan Limits & Dependents Unable to Secure a Parent Plus\* are:**

- \$6,625 for preparatory coursework for enrollment in an undergraduate program and at least \$4,000 of this amount must be in unsubsidized loans
- \$7,500 for a freshman (0 to 29 credits completed) and at least \$4,000 of this amount must be in unsubsidized loans
- \$8,500 for a sophomore (30 to 59 credits completed) and at least \$4,000 of this amount must be in unsubsidized loans
- \$10,500 for a junior and/or senior (60 completed credits or more) and at least \$5,000 of this amount must be in unsubsidized loans.

Loan proceeds are sent directly to the Student Business Services Office at Keystone College and will be credited to a student's account. Two

disbursements will be made for each approved loan. If disbursed by check, proceeds cannot be credited to the account until the student endorses the check. Students will be notified when the check or EFT has arrived or the loan has been disbursed to the account.

Keystone College participates with some lenders in the electronic funds transfer (EFT) of Stafford and/or Plus loans, thereby eliminating the disbursement of loan checks and the need for borrower endorsement.

### **Additional Unsubsidized Direct Loan**

Unsubsidized loans have a fixed interest rate of 6.8% for the 2012-2013 award year. Increased loan limits under the Unsubsidized Direct Loan program are available to independent undergraduate students and dependent undergraduate students whose parents are unable to obtain a Direct PLUS Loan.

The annual maximum amounts available through the Unsubsidized Direct Loan are \$4,000 for freshmen and sophomores, \$5,000 for juniors and seniors, and up to \$12,000 for graduate students.

Repayment of principal begins six months after completion of the program of study or leaves for more than six months. Interest accrual begins immediately during in-school and deferment. Interest accruing during these periods may be paid or capitalized.

### **Entrance/Exit Interview Requirement for Stafford and Perkins Borrowers**

The Higher Education Amendments of 1986 stipulates that schools must conduct entrance and exit interviews for all students borrowing from the Stafford and Perkins loan programs.

Entrance interviews are conducted prior to the certification and crediting of the student's first loan. These interviews are intended to give new student loan borrowers pertinent information about the terms and conditions of the loan, the borrower's responsibilities, and the importance of meeting repayment obligations.

During entrance interview counseling, students will also receive sample repayment tables that can be used to estimate monthly payments and information on when loan repayment begins.

Prior to graduation or upon withdrawal from the College, all Stafford and Perkins borrowers must attend an exit interview. Exit interviews are designed to prepare the student loan borrower for repayment. During the interview, the borrower will receive information on repayment options, consequences of default, deferments, loan consolidation, and communication with the lender and/or loan servicer.

To satisfy the entrance interview requirement, a borrower must complete this requirement on-line through the internet at [www.studentloans.gov](http://www.studentloans.gov) and click on entrance loan counseling. Be sure to select Keystone College from the list of participating schools. Read and complete all required information. You may also complete your exit loan interview online at the same Web site. Exit loan counseling sessions are conducted each semester. The Financial Assistance and Planning Office receives a list each semester of those students eligible for graduation, which we use to contact each graduate to attend. Those students who withdraw will see their counselor as they come around with the withdrawal form and receive their counseling.

### **Work Study**

Keystone College is proud to provide two types of work study. The first is the federal work study program which is need-based. As the Financial Assistance and Planning Office prepares your financial assistance package, if there is need, a student will receive an estimated federal work study award in the package. The second type is the Keystone work study that is funded solely by Keystone College. If a student does not have any need, he/she will be awarded an estimated Keystone work study amount. Please keep in mind that even though a work study award is included in your financial assistance package, there is no guarantee

for employment. There are a variety of jobs available to students with various hours and responsibilities. Job descriptions can be viewed with the Senior Director of Student Support Services who is located in the Student Success Center. Students must be enrolled in an eligible program of study to be considered. Applications and further information are available on PHEAA's website, which is [www.pheaa.org](http://www.pheaa.org).

Work study awards do not get credited to a student's account. It is a job that the student will receive a paycheck for bi-weekly that can be used to cover educational and/or personal expenses while enrolled at least half-time.

All students who are new to the work study program must first document that they are eligible to work in the United States by completing the U.S. Department of Justice Form I-9. At the time they are completing the I-9 form, students must have two forms of identification with them. Acceptable forms of identification include: the student's driver's license **and** social security card; **or** birth certificate **and** driver's license; **or** social security card **and** student picture ID card.

## **Pennsylvania State Financial Aid Programs**

### **PHEAA State Grant**

The Pennsylvania State Grant Program is administered by the Pennsylvania Higher Education Assistance Agency (PHEAA) and provides grant assistance to undergraduate students enrolled in at least a two-year program and who are Pennsylvania residents. Students must be enrolled at least half-time (at least 6 credits) in order to qualify for the program as well. Eligibility is determined by PHEAA, and awards range between \$200 and \$3,989 for the 2012-2013 award year. Recipients must also be high school graduates or have a Pennsylvania GED. Receipt of the PHEAA State Grant assistance may not exceed the equivalent of eight semesters of full time award for a four-year program or four semesters of full time award

for a two-year program. The FAFSA must be filed each year prior to May 1 in order to be considered for eligibility.

PHEAA state grant recipients who received assistance as full time students must complete a minimum of twenty-four (24) credits for every two terms of state grant assistance while those who received assistance as part time students must complete a minimum of twelve (12) credits for every two terms of state grant assistance. This requirement must be met even if the state grant was received for attendance at another institution.

For online or hybrid course students please see PHEAA terms and conditions at [www.keystone.edu/tuition-aid/financialaid/](http://www.keystone.edu/tuition-aid/financialaid/).

Note: First time applicants will need to complete a "status notice." This form is available through "account access" at [www.PHEAA.org](http://www.PHEAA.org).

## **Pennsylvania New Economy Technology Scholarship Program**

Scholarships are awarded to students who are at least a sophomore and enrolled as a full-time student pursuing a bachelor's degree in an approved science or technology field at an approved institution. Scholarships provide up to \$3,000 per year based on the total educational costs (tuition, mandatory fees, room, board, and an allowance for books) to students who are enrolled full-time, for a maximum of three years. For additional information and criteria contact the Financial Assistance and Planning Office or PHEAA's website at [www.pheaa.org](http://www.pheaa.org), or 1-800-692-7392.

PHEAA state grant recipients who received assistance as full time students must complete a minimum of twenty-four (24) credits for every two terms of state grant assistance while those who received assistance as part time students must complete a minimum of twelve (12) credits for every two terms of state grant assistance. This requirement must be met even if the state grant was received for attendance at another institution.

## **State Work Study Program (SWSP)**

The State Work Study Program, administered by PHEAA, provides eligible Pennsylvania students with opportunities to earn money for college education while working for a high tech or community development employer. Participating agencies include non-profit organizations, private businesses, and industry. Students must be enrolled in an eligible program of study to be considered. Applications and further information are available on PHEAA's website, which is [www.pheaa.org](http://www.pheaa.org).

## **Program Scholarships**

Keystone College offers a variety of scholarships that are both need-based and program specific. The scholarships are:

- \* Professional Accounting Scholarship
- \* Drinko Criminal Justice Scholarship
- \* Information Technology Scholarship
- \* Shoney's Culinary Arts Scholarship
- \* Sports and Recreation Management Scholarship

For more information on program scholarships, visit [www.keystone.edu/tuition\\_aid/scholarships](http://www.keystone.edu/tuition_aid/scholarships).

## **Office of Vocational Rehabilitation (OVR)**

OVR provides educational assistance to medically qualified students. When determining the amount of assistance, OVR requests information from the Financial Assistance and Planning Office pertaining to the student's eligibility for state and federal grant assistance.

To find out more about OVR requirements, contact the OVR representative in your area.

## **Veterans Benefits**

If you are an eligible veteran or dependent of an eligible veteran, you may be eligible for Veterans Educational Benefits. For more information, contact the Registrar's Office.

## **FINANCING YOUR EDUCATION AT KEYSTONE COLLEGE**

Keystone College provides several options to assist in covering the cost of education. Understandably, the financial assistance package developed may not cover the entire cost to attend. We understand and offer several options for payment.

### **Federal Parent Loan (PLUS)**

PLUS loans are available to parents of dependent students to meet educational costs. Through the PLUS program, parents may borrow the difference between a student's cost of attendance less any financial aid.

Eligibility for a PLUS loan is based on credit-worthiness of the parent borrower. The interest rate is a fixed 7.9% for the 2012-2013 award year. PLUS loan proceeds are sent in two disbursements and are made co-payable to the parent and to the school. If the parents have authorized EFT, loan proceeds will be credited directly to the student account and the parent will be notified. If the funds are issued by check, the Student Business Services Office will contact the parent borrower for endorsement and then credit the funds to the student account.

### **Tuition Management Systems (TMS)**

Keystone College participates in the Tuition Management Systems (TMS) payment program. This program offers families the ability to make monthly payments while the student is in college. This eliminates the need to make lump sum payments prior to the beginning of each semester. Families can budget an amount not to exceed total yearly charges less any financial aid that will be received. No interest is charged by TMS, rather there is a one time minimal fee to participate each year.

You may contact the Student Accounts Office for more information or TMS directly at 1-800-722-4867 or at [www.afford.com](http://www.afford.com).

## Alternative Loan Programs

Many programs are available through lending institutions to families in need of additional funding for education. These alternative sources may be a lien of credit to cover educational costs for four years, a supplemental loan processed on a yearly basis, or a home equity loan. In most cases, eligibility for supplemental loan programs is based on the personal credit history and financial circumstances of the student. Usually a debt-income analysis is performed to determine the applicant's ability to repay the loan. Some applicants may find they need a co-borrower to gain approval for a supplemental loan. For additional information on these programs, contact the Financial Assistance and Planning Office or visit [www.elmselect.com](http://www.elmselect.com).

## Payment/Aid Disbursement

Students receive a statement of account for each semester they are enrolled or plan to enroll. The statement reflects tuition, mandatory fees, room, and board. The statement will also include financial aid awards that are complete and/or have been received by the Student Business Services Office. Any balance due **must** be paid prior to the start of classes.

## Summation of Discounts

Keystone College offers students a variety of College funded aid options, including the following awards and discounts.

**Family of Graduate Award:** In order to be eligible for this award, students must be a member of the immediate family (mother, father, children, stepchildren, grandchild, sister, or brother) of a bonafide graduate of Keystone College. This award allows for up to 25 percent tuition discount, which is renewable annually up to four years to new, first-time, full-time students. The Office of Admissions is responsible for determining the name of the graduate and coordinates with the Registrar's Office. The Registrar's Office certifies eligibility for this award, which is posted by the Financial Assistance and Planning Office.

**Sibling Award:** In order to be eligible for this award, both siblings must be enrolled at Keystone College simultaneously. Available to full-time students, this award is prorated up to 10 percent of tuition and is renewable annually up to four years. Siblings are eligible for up to \$2000 tuition discount per year (up to \$1000 per sibling). The Office of Admissions is responsible for determining siblings and the Registrar's Office certifies eligibility. The Office of Financial Assistance and Planning posts this award.

**High School Discount:** In order to be eligible for this discount, students must be currently enrolled in high school or home school. Eligible students may receive a 50 percent tuition discount. Applicable only to summer school, this discount is available to part-time students only and is renewable. A high school transcript is required and should be submitted to the Registrar's Office. The Registrar's Office certifies eligibility and space availability. The Student Business Services Office posts this discount.

**Senior Discount:** In order to be eligible for this discount, a student must be 55 years of age or older at the beginning of the semester. This award allows for a 50 percent tuition discount for full- and part-time students. Students must request this discount by providing appropriate ID showing age to the Registrar's Office. The Registrar's Office will certify eligibility and space. The Student Business Services Office applies this discount which takes effect only once age has been verified (this is not retroactively applied). A student receiving this award is not eligible for any other institutional grants or scholarships.

**Tuition Discount for Graduates:** In order to be eligible for this discount, students must have received a bachelor's degree from Keystone College and take six or fewer credits of personal enrichment courses (non-matriculating student-education certificates ineligible). This award allows for a 50 percent tuition only discount.

The Registrar's Office certifies eligibility and space availability. The Student Business Services Office posts this discount.

## **SATISFACTORY ACADEMIC PROGRESS REQUIREMENTS FOR FINANCIAL AID**

Federal regulations require that educational institutions measure students' progress toward a declared educational objective, both quantitatively and qualitatively. In accordance to these requirements, Keystone College has established the following standards to measure a student's academic progress for each academic year. These standards will be applied uniformly to all students when determining their eligibility for Federal and/or Keystone College Funding regardless of whether the student previously received these funds. Should a student fail to meet any of these requirements they are deemed not eligible to receive Federal and/or Keystone College funding until the deficiency is made up by the student.

### **Satisfactory Academic Progress Requirements**

Federal regulations require that educational institutions measure students' progress toward a declared educational objective, both quantitatively and qualitatively. In accordance to these requirements, Keystone College has established the following standards to measure a student's academic progress. These standards will be applied uniformly to all students when determining their eligibility for Federal and/or Keystone College funding regardless of whether the student previously received these funds. Should a student fail to meet any of these requirements they are deemed not eligible to receive Federal and/or Keystone College funding until the deficiency is made up by the student.

### **Satisfactory Progress**

Satisfactory Academic Progress (SAP) is defined as a measure of both qualitative

and quantitative levels of a student's grade performance. Students who have not met the requirements are not eligible for Federal and/or Keystone College funding until the credit deficiency is made up.

For the qualitative measurement a student must meet the following minimum Cumulative Grade Point Average (CGPA) requirements:

1. < 24 Credits Attempted: CGPA of 1.75 with a completion rate of 2/3 (66.667%)\*
2. > 24 Credits Attempted: CGPA of 2.00 with a completion rate of 3/4 (75.000%)

\*All transfer students will be treated as new students for the purpose of this policy except that students who transfer in more than 24 credits will be required to earn a CGPA of at least a 2.00 and a completion rate of 75.000%. Additionally, all first time students are held to the same criteria, there is no alternate criterion available to first time students who enroll in any terms other than fall.

For the quantitative measurement a student must demonstrate they are progressing towards completion of their program within a maximum time frame. In order to meet this, a student must complete no less than 2/3 or 3/4 of what they attempted – see points 1 & 2 above. This calculation is cumulative and is based on all credits attempted and earned. Credits transferred into Keystone College are considered as attempted and earned for this purpose.

### **Maximum Semesters of Eligibility**

For undergraduate programs of study, the maximum time frame allowed to receive aid cannot exceed 150% of the published length of the educational program. For example: for a Bachelor's Degree that requires 120 credits for graduation, a student may attempt or enroll in 180 credits with the objective of earning the 120 needed to graduate. Students who are pursuing a double major or who change majors may be eligible for an extension of the time on an individual review basis.

## **Procedure for Checking Satisfactory Academic Progress**

At the end of each semester, aid recipients are reviewed to determine if they have met the minimum credit requirements as well as earned the appropriate CGPA. If they have not, a letter is sent to each student informing them that they are on financial aid warning and are eligible for continued Federal and/or Keystone College funding throughout their following constitutive term. If the student again does not make progress they are NOT eligible for federal or keystone funding. Should progress not be met after a semester of warning the student may appeal for aid to the Director of Financial Assistance and Planning, if the appeal is approved the student will be presented with an academic plan. If they have satisfied the requirements of the academic plan, they are considered to be making progress and their progress is then checked per semester moving forward.

## **Students Applying for Re-admittance to Keystone College**

Any student looking to be readmitted to Keystone College will have their Satisfactory Academic Progress (SAP) checked. If at that time the student shows a deficiency in either requirement from previous semesters at Keystone College, they will be deemed ineligible for Federal and/or Keystone College funding until the progress is made up. If deemed ineligible for financial aid the student will be held to the SAP standards of the SAP policy.

## **Incomplete Work, and Withdrawals**

Incomplete work in a course, resulting in an 'I' or 'IP' on the grade report will be counted toward the academic progress calculation. In addition, withdrawing from a course or a number of courses may affect a student's academic progress if the withdrawal causes a student to fall short of the minimum credits required for that term's academic progress requirement. Since

financial aid may have been previously awarded for the course(s) dropped, students may need to earn the credits at their own expense in order to make academic progress and remain eligible for financial aid assistance.

## **Repeated Courses**

**Qualitative Standard:** If a course is taken for a second time, the latest grade will be figured into the student's CGPA.

**Quantitative Standard:** In determining eligibility for financial aid, each attempt is included in calculating total hours attempted.

## **Re-Establishing Eligibility for Financial Aid**

### **Credit Deficiency (quantitative):**

Students may make up a credit deficiency by attending Keystone College summer sessions or other sessions without aid. Or, students may take credits at another accredited institution as long as they will be accepted toward the student's degree objective.

Once a student has made up the credit deficiency, it is the student's responsibility to notify the Financial Assistance & Planning Office and request to be reinstated.

### **Cumulative Grade Point Average Deficiency (qualitative):**

Students may make up a CGPA deficiency by attending summer sessions or other sessions without aid. In order for a CGPA deficiency to be made up, classes must be taken at Keystone College. Classes taken at other accredited institutions have bearing only on credit deficiencies and will not affect the CGPA deficiencies. Only credits transfer in, not the grade(s) earned. Once a student has reached the required CGPA, it is the student's responsibility to notify the Financial Assistance and Planning Office and request to be reinstated.

In both situations, the Financial Assistance and Planning Office will verify that the deficiency has been made up and award aid if appropriate. If the Financial Assistance and

Planning Office's findings are inconsistent with the student's, the student will be contacted and the results explained.

## Appeals

Any student who has failed to meet the academic progress policy requirements due to extenuating circumstances may appeal the termination of their financial aid. Appeals must be made in writing to the Director of Financial Assistance and Planning. The appeal must include the following:

1. Why the student failed to make academic progress.
2. What has changed that will allow the student to make progress.
3. Any/All supporting documentation must be submitted with the letter of appeal.

All appeals must be submitted no more than 14 days before the start of the next semester. Appeals may be granted upon one of two conditions:

1. The Director of Financial Assistance and Planning has determined the student will be able to make up their progress by the next evaluation period.
2. The Director of Financial Assistance and Planning (in conjunction with the Registrar) has developed an academic plan that will ensure progress is met within a specified time frame and the student agrees to the conditions of the plan.

All such appeals will be reviewed on an individual basis and will take into consideration special circumstances and improved academic performance. A student may only be on Financial Aid warning for one semester unless there is an academic plan in place which specifies a later time frame. By federal regulations the Director of Financial Assistance and Planning may not place a student on Financial Aid warning for consecutive semesters without an academic plan.

Students may appeal for financial aid only one time. If a student can show documented proof of cause an appeal may be made amended; a letter of appeal and supporting evidence will be necessary for an appeal amendment. Academic plans will be reviewed by the Director of Financial Assistance and Planning on the third Monday of every month or 14 days prior to the start of the semester. Any appeal made after the 14th day prior to the start of the term will be declined (with exception only given to amendments). Students will be notified via email of the decision no less than 7 days after a decision is made.

## SCHOLARSHIPS AND AWARDS

### Merit Scholarships

A variety of merit scholarships are awarded from the Admissions Office. Each student who applies to Keystone College and is accepted may be eligible for a merit scholarship. A student can only receive one merit scholarship and these scholarships are not need-based. The Admissions Office uses several pieces of information to determine what scholarship and dollar value is awarded. These factors include, but are not limited to, SAT/ACT scores, high school academic record, and information provided in the application file. The scholarships available are:

Academic Excellence Scholarships  
International Student Scholarship for Currently Enrolled Students  
Promise Scholarships  
Presidential Scholarships  
Trustee Scholarships  
Community Excellence Awards

For more information on merit scholarships, visit [www.keystone.edu/tuition\\_aid/scholarships](http://www.keystone.edu/tuition_aid/scholarships)

### Transfer Scholarships

Keystone College offers a variety of scholarships geared directly towards transfer students including:

Local College Scholarships  
Phi Theta Kappa Scholarships  
Transfer Presidential Scholarships

Transfer Trustee Scholarships  
Transfer Promise Scholarships  
Community Excellence Awards

## **Program Awards**

Keystone College offers a variety of scholarships that are both need-based and program specific. Program scholarships are awarded to students in a particular major with demonstrated need. Program scholarships include:

Professional Accounting Scholarships  
Drinko Criminal Justice Scholarships  
Information Technology Scholarships  
Shoney's Culinary Arts Scholarship

For more information on program scholarships, visit [www.keystone.edu/tuition\\_aid/scholarships](http://www.keystone.edu/tuition_aid/scholarships)

## **Donor-Supported Scholarships**

Endowed and annual scholarships are funds that benefactors provide to Keystone College to award to students in accordance with the criteria established for each scholarship. The Financial Assistance and Planning Office awards most of these scholarships; however, some do require a separate application. All students who receive a donor-supported scholarship are asked to attend the College's annual scholarship luncheon, as well as respond to the benefactors through the Office of Institutional Advancement and receive instructions on doing so.

Since 1996, more than \$4.8 million in scholarship funding has been awarded to over 2,600 worthy Keystone College students. Each year over 200 students benefit from approximately \$350,000 in donor-supported scholarship assistance. Thanks to the generosity of donors, the College currently offers the following donor-funded scholarships.

## **Endowed and Annual Donor-Supported Scholarships**

Margaret Addis Scholarship at Keystone College  
Alperin Family Scholarship  
Alumni Association Scholarship  
Professor Anita S. Appleton Scholarship

John and Pat Atkins Scholarship  
Sister Adrian Barrett, IHM Leadership Award  
N. Ruth Bayliss '53 Memorial Scholarship  
Behrmann Family Scholarship  
Constance Reynolds Belin Scholarship  
Vladimir Bialkowski Memorial Scholarship  
Dr. Edward G. Boehm, Jr. Appreciation  
Scholarship of the FWCL  
Edward G. and Regina E. Boehm Scholarship  
Regina E. Boehm Scholarship  
Barry L. Brauer '74 Memorial Scholarship  
Margaret Briggs Scholarship  
John H. Brooks Memorial Scholarship  
F.L.G. Brown Scholarship  
Dr. Roscoe C. Brown, Jr. – Tuskegee  
Airman Scholarship  
Barry J. Capwell Memorial Scholarship  
Chef Mike Caracappa Memorial Scholarship  
Arnold Cembalest Scholarship  
Margaretta B. Chamberlin Fund for Part-time  
Students  
Corabelle Chappell Memorial Fund  
Mr. and Mrs. Benton Coleman Grant  
Tracy L. Compton '96 Award  
Thomas W. '52 and Charlotte M. '53 Davis  
Scholarship  
Frank "Chick" DePietro, Sr. Memorial  
Scholarship  
Shirley A. DiAndriola Memorial Scholarship  
Jack Donis '37 Academic Leadership Award  
Caroline C. Donovan Memorial Scholarship  
Joseph F. and Corinne J. Dox Scholarship  
John and Elizabeth Drinko Scholarship  
Frederick "Doug" Eckel Scholarship  
Mr. and Mrs. Benjamin F. Evans Scholarship  
Joseph and Louise Finetti Scholarship  
Bonnie Bennett Fiore Memorial Scholarship  
August and Helen Dipple Fleckenstein  
Scholarship  
Donald '40 and Marjorie Foster Scholarship  
Ben Franklin Award of the Scranton  
Area Foundation  
Shirley M. Friden '51 Memorial Scholarship  
Charles A. Frueauff Foundation Scholarship  
Furthering the Promise Scholarship

Stephen Gambal Scholarship  
 George Ginader Scholarship  
 Alfred J. Golo Memorial Scholarship  
 Paul Grego '39 Endowed Scholarship  
 John and Lucille Guzey Scholarship  
 Eleanor Yevitz Haselhuhn '43 Scholarship  
 Elmer and Louise Hawk Scholarship  
 Stephen A. Heath Memorial Scholarship  
 Sterling E. and Naomi Reynolds Hess Scholarship  
 Betsy Hibbard Leadership Recognition Scholarship  
 Dr. Byron S. Hollinshead Scholarship  
 Frank and Jean Hubbard Scholarship  
 Michelle Huff Memorial Scholarship  
 International Student Scholarship  
 Sophie K. and Edison A. Isherwood Memorial  
 Scholarship  
 Curtis G. James '52 Scholarship  
 Kagler Family Endowment  
 Dr. James V. Kennedy '53 Memorial Scholarship  
 Keystone College Inter-Hall Council Scholarship  
 Kathryn Peck Knight Scholarship  
 Andrew and Mary Kostige Family Scholarship in  
 Early Childhood Education  
 Nicholas Lachno Scholarship of the Kiwanis Club  
 of Scranton  
 Lees Family Scholarship  
 Robert A. Linder Memorial Scholarship  
 James A. Linen, Jr. Memorial Scholarship  
 Manchester Family Scholarship  
 Marquardt Family Scholarship  
 Msgr. McGowan Cornerstone Scholarship  
 Kate Micucci '01 Art Scholarship  
 Jack L. Middleton '50 Environmental Scholarship  
 Carl A. Miller Memorial Scholarship  
 Harry and Dorothy Miller Loan  
 Sandra Gaudenzi Montrone '61 Scholarship of the  
 Penates Foundation  
 Dr. Robert E. Mooney, Jr. Scholarship  
 James A. Morgart & Family Scholarship  
 Jean Cavalieri Mori Culinary Scholarship Fund  
 John S. Morrison, Jr. '67 Scholarship in Business  
 Administration/Accounting  
 I. Leo and Ann Moskovitz Scholarship at  
 Keystone College

Albert and Carol Mueller Scholarship at Keystone  
 College  
 John J. Passan Scholarship at Keystone College  
 Arnie Patrick Award  
 William G. Pearson Scholarship  
 Pauline Peck Grant and Pauline Peck Memorial  
 Scholarship  
 Pennsylvania Association of School Retirees  
 Scholarship  
 Pennsylvania Governor's Conference for Women  
 Scholarship  
 Pennsylvania Society of Public Accountants  
 Scholarship  
 John R. and Maureen J. Pesavento Scholarship of  
 the S.A.F.  
 Leo Pietrefase Memorial Scholarship in  
 Culinary Arts  
 Agostino Silvio Pillon Memorial Scholarship  
 Roy W. Piper Scholarship  
 Frederick J. Platt, Jr. Memorial Scholarship  
 Paul J. Poinard Scholarship  
 Classes of 1948, 1949 & 1950, "Edward G. Prebor  
 '49," Scholarship  
 Elizabeth H. Rees Memorial Scholarship  
 Frank A. and Georgia J. Reynolds Memorial  
 Scholarship  
 William P. Rinaldi Memorial Scholarship  
 Kimberly Rogers Scholarship  
 Ross Family Fund Scholarship  
 Fay Robins Roth Memorial Scholarship  
 Lou Ruspi, Jr. Memorial Scholarship  
 Mildred Wrigley Ryder Scholarship  
 Walter L. Schautz Foundation Scholarship  
 Alex Schoenbaum Scholarship  
 Frederick J. Scott Memorial Scholarship  
 Scranton Chapter of UNICO Foundation  
 Scholarship  
 Scranton Times-Tribune Scholarship  
 William Seamans '38 Leadership Award  
 Joseph Sirotnak '66, Esq. Memorial Scholarship  
 Lowell and Nora Swarts Scholarship  
 Mike Thomas '56 Memorial Scholarship  
 Naomi Hilditch Traub '48 Memorial Scholarship  
 U.P.S. Scholarship

Robert G. Urie '50 Scholarship in Mathematics & Science  
Katherine O'Dea Van Deusen Scholarship for the Arts  
Lynn E. VanGorder Scholarship  
Mark Vanko, Jr. Memorial Scholarship  
Murray Weinberger Leadership Scholarship  
Charles S. Weston Memorial Scholarship  
Dr. J. Norman White Memorial Scholarship  
Thomas White Leadership Award  
John Woloschuk '47 Scholarship  
Jean & Frank Woodward-Helen Woodward Myers Scholarship in Bio. Science  
Warren G. Yeisley '59 Memorial Scholarship  
Gene and Florian ZaBach Scholarship  
Pete and Ann Zarko Award for Early Childhood Education  
Catherine and Joseph Zaydon Memorial Scholarship

### **Convocation Awards**

J. Harold Brislin Award  
T. Rose Cogswell Memorial Award  
Jo Ann M. Donahue Memorial Award  
Mollie Hanover Memorial Award  
Chester Merrick Memorial Award  
Rose Ann "Scotty" Neuroth Memorial Award

### **Helpful Scholarship Links**

For more information, including description of donor-supported endowed scholarships, visit the following Web sites:

*[www.keystone.edu/tuition\\_aid/scholarships](http://www.keystone.edu/tuition_aid/scholarships)*

*[www.keystone.edu/tuition\\_aid/scholarships/outsidescholarships.dot](http://www.keystone.edu/tuition_aid/scholarships/outsidescholarships.dot)*

# Student Affairs: Information and Regulations

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## College Regulations

By accepting the offer of admission, students enrolling in Keystone College agree to conduct themselves in a manner compatible with the best interests of Keystone and agree to abide by all published regulations governing the student body. The Student Handbook outlining the regulations is available on the Keystone College Web site.

## Social Dismissal

The Keystone College student is expected to possess qualities of good citizenship. A student may be suspended or dismissed for violation (Student Handbook) of Keystone College rules and regulations. All students who are suspended or dismissed from the College are still responsible for paying their student account bill. No refunds will be granted for students who are suspended or dismissed from the College. Refer to the Student Handbook for policies.

## Student Conduct

The Office of Student Conduct is committed to providing all students the best possible service and experience at Keystone College. The primary function of the Office of Student Conduct is to uphold the Student Code of Conduct; administer conduct procedures in support of the College's mission and vision; and to maintain a positive learning community for the College community.

The Office of Student Conduct encourages equality, dignity, and mutual respect for all members of the campus community. The office strives to inspire trust and confidence in the College's rules, regulations and student conduct procedures.

## Residence Life

The Office of Residence Life supports the personal growth of resident students as they adjust to college life and interact with others in the residence halls, the College community, and the surrounding area. The office oversees seven residence halls, which include cable television, internet access, local telephone service with voicemail, and the use of the campus laundry facilities at no extra charge. In order to maintain community values and responsible living for the residents, the College has established the following guidelines:

**First-year students:** First-year students who live outside a 50-mile radius from Keystone College, and who are under the age of 21, must live on campus if they are not residing with a parent or legal guardian. First year students who fall into this category must live on campus for both the fall and spring semesters.

**Full-Time Students:** Students are required to carry a minimum of twelve (12) credit hours to live in a residence hall. A student who drops below 12 credit hours after the start of an academic year and wishes to remain the residence hall must submit a written request to the Assistant Director of Residence Life/ Coordinator of Housing. This request must clearly state the reason(s) why the student wishes to carry fewer than twelve (12) credit hours and still live in the residence hall.

Any student who falls below 12 credits and has their request to remain on-campus denied will have to move out of the residence halls within 24 hours. Students can only request a pro-rated refund on their meal plan, not their housing, in this circumstance.

**Accommodations:** There are limited housing spaces available for special accommodations and priority will be given to individuals who are eligible to receive accommodations under Section 504 of the American with Disabilities Act (ADA). Special housing accommodations are not standard. In order to determine if special housing is a reasonable request, we must receive detailed documentation. Documentation must be from a medical doctor or licensed professional with expertise in the area of diagnosis.

## **Student Activities and Leadership Development**

Keystone College prides itself on the opportunity it presents for informal and friendly exchanges among students, faculty, and staff, which occur both in and out of the classroom. There are many events scheduled throughout the year to promote this interaction while Keystone's pleasant campus atmosphere allows for spontaneous gatherings.

Through the Office of Student Activities and Leadership Development, students are encouraged to participate in various leadership programs. The office provides opportunities such as attending a National Conference for Student Leadership, participating in the Wilkes-Barre Intercollegiate Leadership program, attending the Keystone College Leadership Conference, and much more.

Students at Keystone are encouraged to live well-rounded campus lives by including intellectual, cultural, recreational, and community service interests as integral components of their education. With the support and guidance of the Student Affairs staff, many clubs and organizations provide an assortment of activities in which any student may participate. One of the advantages of attending Keystone College is that our students can become involved in activities and begin to assume leadership positions during their first year.

## **Diversity Services**

Keystone College acknowledges and embraces the importance of diversity in today's world. We foster an environment of respect and appreciation for diversity, including, but not limited to race, ethnicity, nation of origin, gender, sexual orientation, religious affiliation, and disabilities. This is accomplished by working with individuals and groups on issues of awareness, understanding and acceptance of diversity through creative programming, workshops, training, and special events.

## **Student Government**

**Student Senate:** Student Senate represents the united voice of the student body and serves as a liaison between students and administration. The members of Student Senate are advocates for a variety of student concerns. Through Student Senate students also serve as appointed or ex-officio members of certain College committees.

**Student Activities Crew (SAC):** SAC is a student-run organization. All students are encouraged to attend and participate in SAC sponsored events. All SAC planned and run events are free. Events include, but are not limited to, DJ Bingo, Casino Night, Movie Series, Coffeehouse Series, and Spring Fling Week.

**Commuter Council:** The Commuter Council, whose president is a member of the Student Senate, serves as the official voice for commuting student governance. Open to all commuters, it serves the needs of Keystone College's commuting population by sponsoring social, cultural, and special events tailored to their interests and schedules.

**Inter-Hall Council:** The Inter-Hall Council is comprised of elected and appointed representatives from each residence hall. This group evaluates and recommends changes in the residence halls, and promotes and sponsors

hall and campus activities. The president of the Inter-Hall Council also serves as a member of Student Senate.

## Clubs and Organizations

Keystone College offers a variety of clubs and organizations to its student body including:

Alliance of Prospective Physicians  
Armed Forces Club  
Art Society  
Astronomy Club  
Eco Club  
Forensics Science Club  
Key Choices Club (BACCHUS Affiliate)  
Keystone College Society of Science  
Keystone Mofyah Step Team  
Keystone Players  
Keystone Service Club  
Multicultural Affairs Student Association (MCASA)  
Opposing Prejudice Ending Negativity (OPEN)  
Psychology Club  
Rotaract  
Snow Team  
Sport Management and Recreation Team (SMART)  
SPSEA  
Students in Free Enterprise (SIFE)  
Twenty-One Plus Students (TOPS) Club  
Voices  
The Winner's Circle  
WKCV Radio

## Publications

**The Key:** student newspaper

**The Plume:** student literary magazine

## Intramural Sports and Recreation

The Keystone College Intramural Sports and Recreation Office offers a variety of intramural sports and activities throughout the year. The activities offered are designed to promote both recreational and healthy competitions among the Keystone community. Intramural sports are open to the entire campus community and promote good sportsmanship and a safe playing environment for all involved. Some

activities include, but are not limited to, flag football, dodgeball, five-on-five basketball, beach volleyball, and indoor soccer.

The Intramural Sports and Recreation Office also offers recreational activities and trips throughout the year to promote participation and growth both on and off of the Keystone campus. These activities and trips include, but are not limited to, Skirmish paintball trip, Scranton/Wilkes-Barre baseball trip, fitness classes, dance classes, and Wilkes-Barre/Scranton Penguins hockey trip. The Intramural Sports and Recreation Office is always open to new ideas for trips or activities and students are encouraged to share their ideas with the office.

## Eligibility for Extracurricular Activities

Full-time students are eligible to participate in all Keystone-sponsored activities unless the Committee on Standing of Students (SOS), the Dean of the Academic Affairs, or the Dean of Students Affairs declares that such participation would jeopardize the best interests of the student or the College.

## Health Services

The Health Services Office is located on the ground floor of Tewksbury Hall. The staff consists of one certified physician assistant, two registered nurses, and an administrative assistant. A local physician, specializing in internal medicine, oversees the staff, and when needed, referrals are made to the physician's clinic or other area providers' offices. Serious emergencies are immediately referred to nearby hospitals.

The Health Services staff is committed to a comprehensive wellness philosophy. On-campus medical services, health information, and counseling are available to full-time students and staff free of charge. Primary health care services, including routine physical and gynecological exams and on-site lab testing (in accordance with CLIA protocols), are offered. Wellness and illness/injury prevention education

and materials are reviewed at each visit. Health Services protocols are reviewed regularly by staff and the collaborating physician to ensure that the most current treatment guidelines are utilized. All full-time students are required to complete and submit a health history form and immunization record to the Health Services Office before registering for classes. Part-time students wishing to use the office must complete these forms before non-emergency services can be performed. There is a \$25 fee per visit for all part-time students and part-time employees at the discretion of the physician assistant.

### **Health Insurance**

All full-time students must have health insurance. Students will be billed for health insurance unless waived by presentation of proof of appropriate insurance coverage. *Proof of appropriate coverage must be submitted to the Health Services Office prior to the beginning of classes and done so each year.* Insurance information is not carried over year to year. The cost of the insurance obtained through the College depends on the rate charged by the carrier for that year. Health Services information and forms are located online under Keystone College Support Services.

Students who are enrolled part-time at Keystone College may elect to voluntarily obtain health insurance through the College at the rate charged by the carrier for that year. Part-time students who are not currently covered by any health benefits may seek medical care through Keystone College Health Services for a walk-in charge of \$25.00. Payment is due at the time services are rendered, unless other arrangements are made. Labs and x-ray fees are not included. Fees for follow-up visits will be determined by the physician assistant based on clinical diagnosis. These fees apply only to health care services on campus. If a student elects to seek medical care through the College physician, Dr. Terrance Chilson, fees may vary.

### **College Immunization Requirements:**

Keystone College Health Services requires proof of the following immunizations to all full-time students:

- 1). Meningitis vaccination as required by Pennsylvania law for resident students;
- 2). Evidence of childhood immunizations: Mumps, Measles and Rubella I and II (both immunizations); Polio Series; Tetanus and Pertussis Diphtheria Booster, within the last 10 years; and Tuberculosis screening.

We highly recommend the following immunizations:

- 1). Meningitis for commuter students;
- 2). Hepatitis B series; and
- 3). Flu shot every year, especially if you are a resident student.

### **Department of Campus Safety**

The Department of Campus Safety is a service oriented, community based organization whose mission is to ensure the safety and well being of all individuals at Keystone, as well as protecting the College's property and assets. The Department of Campus Safety and its officers provide a fair, educationally sound program of justice that receives community support and is responsive to the interests of all members of its community, regardless of age, race, ethnicity, gender, handicap, national or sexual orientation. It assures the orderly preservation of the ideals of scholarship and the protection of academic freedom. The Department of Campus Safety adheres to a policy that provides for a minimum of administrative enforcement and a maximum of self regulation, in order to offer students and the community the best possible educational environment.

The Department of Campus Safety coordinates and delivers campus safety procedures, regulates and enforces traffic and parking regulations on campus, maintains a community lost and found service, and provides both a shuttle and walking escort service to all

members of the campus community 24 hours a day. The Department of Campus Safety is open and staffed 24 hours a day, every day of the year in order to serve the needs of the campus and the campus community.

## **Athletics**

### **Intercollegiate Athletics**

The program of intercollegiate athletics functions as an integral part of the total educational process at Keystone College. In keeping with this, policies that guide the operation of the athletic program have been designed to complement the educational objectives of Keystone.

Keystone College is a member of the NCAA at the Division III level and is also a member of the Colonial States Athletic Conference (CSAC).

Keystone's intercollegiate teams compete with other four-year institutions of comparable strength in men's and women's basketball, men's and women's soccer, baseball, softball, field hockey, men's golf, women's volleyball, men's and women's cross country, men's and women's indoor and outdoor track, men's and women's tennis, and club cheerleading.

### **Eligibility for Athletics**

To be eligible for intercollegiate athletic competition, a student must be enrolled full-time and carry a minimum of 12 credit hours per semester. The student must also satisfy all provisions of the eligibility rules stated by the National Collegiate Athletic Association (NCAA). The complete codes of eligibility standards are available for review in the Athletic Department and in publications distributed by the NCAA. The Director of Athletics can answer all questions pertaining to special conditions, such as the status of transfer students and summer study.

## **STUDENT SUPPORT SERVICES**

### **Career Development Center**

The Career Development Center assists students in clarifying their career goals and exploring career options through individual counseling, career assessments, workshops and access to a career library of various electronic and hard-copy research materials. Assistance with preparing a professional resume and cover letter, planning a job search and preparing for job interviews is available to all students.

On-campus recruiting provides students the opportunity to interview for jobs and internships with national, state and local employers. As another available resource in their job search, students and alumni have free access to an online job and internship posting board. Students interested in pursuing additional education after their time at Keystone College are offered assistance with researching the next appropriate level of education.

While attending Keystone College, students who meet the specific criteria of eligibility may participate in internships and experiential learning programs. These programs provide a supervised period of practical work experience that is integrated into the academic program to assist students in applying classroom principles in real-world situations, exploring occupational fields and observing the sociological, technological and occupational conditions of a work site. Students in good standing may be eligible to participate in work experiences for credit with as few as 15 completed credit hours.

To register for experiential learning for credit, a student must submit an approved contract signed by the student, faculty mentor, faculty adviser, employer, Director of the Career Development Center, and Registrar's Office before the work experience begins. Students must register in order for credits to be earned. Credits may be assigned on the basis of 40 hours of work per credit and students may earn

a maximum of six credits for work experiences. Grading can be either pass/fail or a letter grade with the approval of the faculty mentor.

At the end of conclusion of the work experience, all completed paperwork including evaluations of the experience from the student, and employer should be returned to the faculty mentor. The faculty mentor is responsible for submitting a grade for the work experience.

In some majors, experiential learning may be used as a free elective. Students should check with their academic adviser for applicability of experiential learning credits, as well as information on eligibility and requirements for internships within their majors. For more information on accessing the services of the Career Development Center, please visit *www.keystone.edu/cdc* or call 570-945-8312.

### **Center for Global Learning**

The Center for Global Learning is designed to increase and enhance global learning through the curriculum, study abroad, foreign language offerings, and internationalized programming on campus. The Center for Global Learning prepares students for life and work in the global economy of our interdependent world. The Center provides students with appropriate real world experiences that include study abroad, international internships and experiential learning opportunities, and courses emphasizing global issues and perspectives. Furthermore, the Center encourages enrollment and support of international students.

### **Study Abroad**

International learning is an essential component of an undergraduate education. Therefore, the mission of the Center for Global Learning is to serve all Keystone College students by providing academically-based international experiences that will give them the skills to be active, informed, and culturally sensitive citizens in a rapidly changing global society. To ensure that our students have a

safe, educational, and outstanding experience, the Center for Global Learning provides information and support for students to participate in a variety of semester and summer programs, faculty-led program, and international internships offered through reputable, college-approved study abroad providers.

### **International Student Services**

Keystone College strives to foster cross-cultural understanding and provides services to help our international students accomplish their educational, social, and professional objectives. The International Student Designated School Official is responsible for informing international students about U.S. federal regulations affecting their status and will provide them with the resources necessary to maintain their legal status as full-time students in the United States.

### **Student Success Center**

#### **Student Success Center**

The Student Success Center (SSC) provides a wide range of student support services and programs designed to assist students in making the most of their college experience. The SSC provides academic support services, advocacy, alcohol and other drug prevention and intervention, counseling, disability services, study partner program, test proctoring, tutoring support, work study, student resources, and college withdrawals.

#### **Disability Services**

Students with documented disabilities may receive reasonable accommodations in accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Such accommodations include, but are not limited to, student advocacy, assistance with note taking, the study partner program, and extended time on tests.

## **Peer and Professional Tutoring Services**

Keystone College is a supportive academic environment that is reinforced by its tutoring services. The tutoring program is staffed by peer and professional tutors who offer individual and group study sessions in most courses. All tutoring is free of charge. The tutoring schedule is located on student's Moodle pages, on the Student Success Center bulletin board, and in Patrick Hall. Students are encouraged to stop by the Student Success Center if they would like assistance in identifying a tutor.

## **Proctoring**

The SSC offers a separate, secure testing location for students with documented disabilities, and will work closely with students and instructors to meet needed testing accommodations. In addition, proctoring services are offered to students attending other educational institutions.

## **Counseling**

Counseling is a process of assessing both academic and personal growth, discovering one's potential, and developing plans that will create a healthy and satisfying lifestyle.

Although counseling can be based on crisis resolution, it can also come about through an interest in learning more about oneself and realizing true potential through personal responsibility. Personal, academic, transfer, vocational, crisis, and career counseling is provided along with group learning experiences and personal development. All counseling is free and confidential as per ethical guidelines.

## **Work Study**

Campus work study opportunities, awarded through Financial Aid, will be arranged through the SSC based upon the needs of various departments and offices seeking workers.

Once a student is selected for a work study position, a work study contract must be completed. Signed contracts must be returned

and to the Financial Aid Office prior to the student beginning work.

## **Student Resources**

The SSC provides a welcoming study area, complete with a number of computers and a collection of support resources and literature ranging from self-help to academic assistance such as paper writing and study techniques.

## **Act 101 Counseling**

An Act 101 counselor is available to assist Act 101 students in achieving their personal and educational goals. The Act 101 counselor works individually or in groups to provide help in the following areas: personal counseling intervention, orientation to college, academic advising, financial aid counseling, and monitoring of student progress.

## **Withdrawals and Intent to Not Attend**

A student who may wish to withdraw from Keystone College or who may plan not to return to Keystone College for the upcoming semester is asked to meet with the Director of the Student Success Center to complete the necessary paperwork.

## **Patrick Hall**

### **Act 101**

Act 101 is a state-funded program designed to build academic excellence through counseling, tutoring, and one-on-one personalized advising for students who have a high potential for achievement although provisionally admitted. Students must be Pennsylvania residents in order to participate in this program which provides opportunities to further develop academic and leadership skills as well as positive study habits.

### **The Center for Community Outreach**

The Center for Community Outreach provides students meaningful opportunities to serve the needs of the community. Students may become involved in service and civic engagement as

student assistants, the Keystone Service Club, and service scholars. Many of the students' classes, including FYS: First-Year Seminar, require service learning projects as part of the coursework.

### **KCVETS Program**

Keystone College has a strong commitment to making the educational transition of our veterans as straightforward as possible. Through our Office of Commuter Life, the Keystone College Veterans Educational and Transition Support Program (KCVETS) is designed to take an individual from “boots to books” utilizing many key offices across campus. Students receiving veterans benefits will have services tailored to their needs from admissions through academics and into career development.

### **Office of Commuter Life**

The Office of Commuter Life serves as a resource center for all students who live off-campus. Patrick Hall provides a lounge on the first floor featuring a mini coffee shop,

microwave, computer lab, and other educational resources. All of the information you will need to move off campus, such as landlord contact information, tips and tricks for living on your own, and personalized assistance for this transition can be found in this location.

### **Peer and Professional Tutoring Services**

Keystone College is a supportive academic environment that is reinforced by its peer and professional tutoring services.

The tutoring program is staffed by peer and professional tutors who offer individual and group study sessions in most courses. All tutoring is free of charge.

Patrick Hall contains a Tutoring/Writing lab. Kemmerer Hall contains a Math/Science lab. Both labs have computers and tutors available. Day and evening hours are offered as posted. Tutors may be found and contacted by visiting the Keystone College Web page “Tutoring” links where a schedule of “Tutoring by Subject” is posted with contact information.

# Academic Affairs: Information and Regulations

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## Degree Requirements

In addition to the bachelor of science (BS) and bachelor of arts (BA), Keystone College awards the associate in applied science (AAS), the associate in arts (AA), the associate in fine arts (AFA), and the associate in science (AS) degrees. The associate degrees vary according to the number of liberal arts credits required. Keystone College also awards one-year certificates in several areas of study.

## General Requirements

To be eligible for a Keystone degree, all students, including transfer students, must successfully complete the minimum number of credits required by the curriculum they have selected and the specific courses of that curriculum. In addition, they must have attained a cumulative grade point average of at least 2.00. Baccalaureate degree students must also have a minimum 2.00 GPA or better in upper-level courses in their major. A minimum of 23 of the final 32 credits must be earned at Keystone. Students must also meet all the requirements of their chosen curricula, as specified beginning on page 66. Academic advisers are assigned to help students plan for graduation. However, the student assumes full responsibility for meeting the requirements for graduation.

The graduation requirements of Keystone, as published in the catalog in effect at the time of the student's initial enrollment, are those which must be met for completion of an undergraduate degree program. Students may request to follow the course requirements outlined in the most recent catalog. This request must be submitted in writing to the Office of the Registrar.

Students are expected to complete degree requirements within ten years of matriculation.

Students who wish to return to Keystone after a lapse of study exceeding five years will have their courses reviewed by the registrar, with the input of the academic divisions, to determine if any of the previous coursework is viable and applicable to a current degree program. These students must reapply to Keystone College through the Office of Admissions. See page 10 - Readmission and follow the current Catalog.

To waive, substitute, or alter in any way departmental or institutional degree requirements, the student must petition the Committee on Standing of Students (SOS). The petition must be signed by the student's academic adviser and division chairperson. The committee reserves the right to deny any request that is not in keeping with the overall academic policy of the institution.

## Double Majors

Students may pursue a degree in more than one curriculum. Students must declare their intention in writing and receive approval from the registrar. Students are responsible for meeting the requirements of each curriculum, but only need to meet the general education requirements once. Each major will be listed on the official College transcript, but only one degree will be awarded. Students may only double major in curricula for which the same type of degree is earned. Students interested in more than one degree should see "second degree" on page 43

## Minors

Minors are available in a number of disciplines. A minor consists of a minimum of 18 credits in a particular discipline and requires one 1000-level course and two 3000- and/or 4000-level courses. The remainder of courses

may be chosen from current course offerings and are determined by the student and academic adviser. Certain minors require structured curricula. Students may declare a maximum of three (3) minors and must do so in the Registrar's Office prior to registering for GRAD 1100, 1115, or 2110.

See page 195 for a list of minors currently available. Consult with curriculum coordinators to determine additional minors that may be added throughout the academic year.

## Second Degree

Students who have earned an associate degree at Keystone College and are seeking a second associate degree must complete a minimum of 18 credits of new course material beyond the original degree. Students who have earned a bachelor's degree at Keystone College and are seeking a second bachelor's degree must complete a minimum of 36 credits of new course material beyond the original degree. This new coursework may consist solely of required curricular courses or a combination of curricular courses and free electives. Two degrees cannot be earned at the same time. A second graduation fee is charged when the student earns the second degree.

## Graduation Requirements

At the beginning of their final semester of study, students must apply for degree candidacy by registering for GRAD 1110, 1115, or 2110. A student who does not successfully complete degree requirements in the semester of candidacy must reregister for GRAD 1110, 1115, or 2110 at the beginning of the semester of the anticipated graduation date. An additional graduation fee will not be charged. (An additional graduation fee is only charged if the student completes another degree.) Any student who completes degree requirements but does not apply for candidacy or register for GRAD 1110, 1115, or 2110 will not be eligible to receive a degree until the graduation date following application for candidacy and registration.

Students completing a certificate must register for GRAD 1110. Students completing an associate degree program must register for GRAD 1115. Students completing a baccalaureate degree program must register for GRAD 2110. Registering for GRAD 1110, 1115, or 2110 will trigger a graduation audit of the student's transcript by the Registrar to determine eligibility for graduation, a report of the audit's results to the student, all necessary forms for students eligible for graduation, and a generation of the graduation fee. Although registering for GRAD 1110, 1115, or 2110 triggers a graduation audit, students may request an audit in the semester prior to their final semester, without registering for GRAD 1110, 1115, or 2110. There is a fee associated with this service. **Students should not register for GRAD 1110, 1115, or 2110 simply to obtain an audit.** Students may obtain an advising copy of their transcript and copy of the curriculum sheet for their major from their division assistant.

## Commencement

Keystone College conducts one commencement ceremony for all students completing their degree requirements that academic year. Attendance at the commencement ceremony is mandatory. Students who are unable to attend commencement must submit a "Request to be Excused from Commencement" to the Office of the Registrar no later than one week prior to the ceremony. Forms can be found at [www.keystone.edu/registrar](http://www.keystone.edu/registrar).

## Change of Curriculum

A student may change from one curriculum to another after the middle of their first term if he or she is accepted in the new curriculum. The student must meet with the division assistant and submit the appropriate official change of curriculum form to the Registrar's Office. A student who is not in good academic standing must obtain permission from the desired major's curriculum coordinator to change from one

curriculum to another. Please note that changing curricula, especially later in the student's tenure at Keystone, may mean that the student will need more time to complete his or her degree.

## **Financial Requirements for Graduation**

Students must have satisfied all financial obligations to Keystone College before a diploma will be issued or transcript released.

## **Honors Program**

The honors program at Keystone benefits students of intellectual promise and high motivation who seek increasing challenges at the undergraduate level. The program is designed to recognize and encourage academic excellence, to stimulate students to work at their own pace, and to facilitate the exchange of ideas and information among students with different interests and in different disciplines. Honors students are placed in a challenging yet supportive environment within which they can develop their critical and creative thinking skills and find ways to use these skills to make a difference in the larger community. The honors program provides co-curricular activities, service opportunities, and intellectual and social support, adding significant dimensions to the students' academic program.

Students admitted to the honors program will be enrolled in a special, enriched section of English 1110 (College Writing I - Academic Writing). In later semesters, students enrolled in a baccalaureate degree program must acquire an additional 18 honors-designated credits, and students pursuing an associate degree program must acquire an additional nine credits (an average of one course per semester). A contract will be signed by the students and faculty for each honors-designated course, outlining additional requirements. Students must have a minimum grade of "B" in both the course and the honors component of the course for honors designation on the transcript. As seniors, honors students will complete an honors project and

presentation in conjunction with their capstone experience.

Selected first-time, first year students who were not admitted into the honors program upon acceptance to Keystone College may enter the honors program at the end of their first semester if they are recommended by at least two instructors and have earned a minimum 3.5 GPA. An interview with the Director of the Honors Program is also required.

Students must maintain a 3.5 cumulative GPA to graduate with honors designation. At commencement and on their diplomas, students in the honors program will be identified as honors scholars.

Honors program students will also attend at least two honors seminars per semester, which will include guest speakers, cultural events, and other activities.

Honors program students enrolled on a full-time basis may be eligible for a scholarship from one-half (plus fees) up to full tuition, including fees.

## **ACADEMIC DEFINITIONS**

### **Course Level/Course Number**

All courses have a four-digit course number which begins with a 1, 2, 3 or 4 (ex., HIST 1130 and ACCT 2120). Courses which have numbers that begin with a 1 are 1000-level courses, and courses which have a number that begins with a 2 are 2000-level courses, etc.

A 1000-level course generally provides an introduction to the subject matter. For some 1000-level courses, it is assumed that the student has no knowledge of the subject matter when beginning the course. Other 1000-level courses assume that the student has some knowledge of the subject matter and includes a review and elaboration of that information. The 1000-level course may serve as a prerequisite or corequisite to other courses.

Many 2000-level courses assume an introductory knowledge of the subject matter

and provide depth in the subject matter. Students must meet any prerequisites to enroll in a 2000-level course. Many 2000-level courses require that students are in their second semester of study.

Courses at the 3000- and 4000-level are mainly designed for juniors and seniors.

## Credits

The number of credits assigned to a course is normally determined by the number of minutes the class meets per week in a 15-week term (including the final exam period). Generally, for lecture and discussion courses, one credit is assigned for each hour of class per week. Generally, for laboratory and studio courses, one credit is assigned for each two to three hours of class per week. Courses taken in schedules other than the 15-week term meet more hours in a week to compensate for the reduced number of weeks in the schedule. The maximum number of credits a student may carry in a semester is 20.5. Students wishing to take more than 20.5 credits must obtain permission from the Committee on Standing of Students.

## Prerequisite and Corequisite for a Course

A prerequisite is a condition that must be met before a student is allowed to enroll in a particular course. Usually this is the completion of another course but may consist of other conditions. A corequisite is a condition that must be met concurrent with enrollment in a particular course. Prerequisites and corequisites are listed in the section of this catalog containing course descriptions beginning on page 201. Only a division chair or curriculum coordinator may waive prerequisites or corequisites.

## Course Audit

A student may register to audit a **lecture course**. Students may not audit on-line, studio, or laboratory courses. The student is allowed to attend classes but is not required to fulfill the formal course requirements. The auditor

is not expected to take any of the instructor's time away from the regularly enrolled students. The auditor may change to credit status during the first two weeks of the term. The student enrolled for credit may change to audit status with the permission of the instructor, Registrar, and Dean of Academic Affairs prior to the completion of two-thirds of the term. An audited course appears on the student's official college transcript without a grade or credit notation. The fee to audit is listed on page 18.

## Pass/Fail Course

At the request of the student, and with the approval of the instructor, an interdisciplinary studies course, an independent study course, or an experiential learning experience course may be graded on a pass/fail basis. The letter "P" will be given if the student's work would normally earn a grade of "C" or higher. Work of lesser quality will receive a grade of "F." A grade of "P" will result in the student earning the credits for the course but will not be included in the calculation of the semester grade point average (GPA) or the cumulative GPA. However, a grade of "F" will be included in the calculation of the semester GPA and the cumulative GPA.

## Credit by Assessment

Currently enrolled, matriculating, Keystone College students who have acquired the information taught in a Keystone College course through other means, or who have failed a course but do not wish to repeat it, may request an assessment to satisfy the course requirements. College courses taken through credit by assessment are pass/fail, and students will earn a "P" or "F" for the course. (See "Pass/Fail Course" above.) Students who have failed a course and wish to receive credit by assessment must wait 90 days to submit their request. The fee for credit by assessment is \$75. Students are not charged a per-credit fee for credits earned through this type of assessment.

Please note that credits earned through credit by assessment do not count as credits

for financial aid. Students receiving financial aid should contact the Financial Assistance and Planning Office prior to deciding to choose this option to ensure that their financial aid will not be affected. Also, credits earned in this way may be more difficult to transfer to other institutions. Appropriate forms may be obtained from the Office of the Registrar.

### Course Challenge

Current students who have enrolled in a course and discover that they have previously learned the content of the course may make a request to the instructor to challenge the course and complete the requirements of the course by midterm. If the student successfully completes the requirements established by the instructor (either the work already stated in the syllabus or alternate requirements) with a grade of “C” or higher, he/she will be permitted to be absent from the class meetings for the remainder of the semester. If the student fails to obtain a grade of “C” or higher, there will be no penalty, and the student will continue attending class. It is also the prerogative of the student to continue in the course in order to improve the “challenge” grade. There is no additional fee for a course challenge other than the per-credit cost of the course if the student is enrolled part-time. Students earn a letter grade (“A” through “C”) for courses completed through course challenge. Appropriate forms may be obtained from the academic division.

### Repeating Courses

A student may repeat a course for credit and grade only if the grade earned was lower than a “C.” There is no limit on the number of times a course may be repeated. Only the most recent grade earned in the repeated course will be used to calculate the student’s GPA, even if one of the prior grades was higher. Courses completed at other institutions are not accepted as repeated courses.

## Student Status

### Part-Time/Full-Time Status

A student has part-time status if enrolled for 11.5 or fewer credits during the current term and full-time status if enrolled for 12 or more credits during the current term.

### Class Standing

|                     |                   |
|---------------------|-------------------|
| First-Year Students | 0 to 29 credits   |
| Sophomore           | 30 to 59 credits  |
| Junior              | 60 to 89 credits* |
| Senior              | 90 and above*     |

*\*Note: A student must be enrolled in a baccalaureate program to obtain class standing above the sophomore level.*

## GRADING POLICY

### Grades

The current grading system is presented below with the quality point equivalents used for calculating grade point averages (GPA):

#### Grade Quality Points

| Grade | Quality Points |
|-------|----------------|
| A     | 4.00           |
| A-    | 3.67           |
| B+    | 3.33           |
| B     | 3.00           |
| B-    | 2.67           |
| C+    | 2.33           |
| C     | 2.00           |
| C-    | 1.67           |
| D+    | 1.33           |
| D     | 1.00           |
| F     | 0.00           |

### Other Grades

### Grade Point Average (GPA)

#### Term Grade Point Average (Semester GPA)

The term grade point average is calculated by dividing the number of quality points earned during the term by the number of credits attempted during the term. Only courses for

which letter grades of “A,” “A-,” “B+,” “B,” “B-,” “C+,” “C,” “C-,” “D+,” “D,” or “F” have been earned are included. For a repeated course, only the most recent grade is used. Grades earned at other institutions are not included.

### **Cumulative Grade Point Average (Cumulative GPA)**

The cumulative grade point average is calculated by dividing the number of quality points earned in all courses taken while at Keystone by the number of credits attempted for all courses taken while at Keystone. Only courses for which letter grades of “A,” “A-,” “B+,” “B,” “B-,” “C+,” “C,” “C-,” “D+,” “D,” or “F” have been earned are included. For a repeated course, only the most recent grade is used. Grades earned at other institutions are not included.

### **I (Incomplete)**

This grade indicates that the student has not completed the course requirements at the time that grades were reported to the Registrar. The student must make arrangements with the instructor prior to the final exam if he/she wishes to receive a grade of incomplete. (Forms are available in the Office of the Registrar.) Instructors should agree to award a grade of incomplete only in the case of exceptional circumstances. Mere inability to submit work on time, or missing the final exam, do not constitute valid reasons for a student to be awarded a grade of “I.” The deadline for the completion of the coursework is four weeks into the next semester. If the course work is not completed within the specified time frame, the incomplete grade will become an “F.”

### **IP (In Progress)**

This grade indicates that a grade was not assigned at the time grades were printed. Use of an in-progress grade indicates that a course is continuing beyond the customary term. The deadline for completion of the course is four weeks into the next semester. If the coursework

is not completed within the specified time frame, the in-progress grade will become an “F.”

### **P (Pass)**

This grade indicates that the student received a grade of “C” or higher in a course graded on a pass/fail basis. Students earn the credits for courses with a grade of “P.” However, the “P” is not included in the calculation of the semester GPA or the cumulative GPA.

### **W (Withdraw)**

This grade indicates that the student withdrew from the course during the second third of the term. The grade is not included in the calculation of the semester GPA or the cumulative GPA.

### **WF (Withdraw Forgiven)**

This grade indicates the student has received an academic fresh start for the semester(s) indicated with WF grades. The grade is not included in the calculation of the semester or cumulative grade point average (GPA).

### **Grade Reports**

Grade reports for classes taken in the traditional or Weekender term are available to students at midterm and at the end of the term. Grade reports for classes taken in intersession or summer session(s) are available only at the end of the term. According to federal law, grade reports are issued only to the student. Exceptions will be made upon written request by the student to send grades to parent(s) or guardian(s), or upon subpoena by court order. All grade reports are available through MyKC, the College’s on-line system.

### **Transcripts**

By federal law, to obtain a transcript, the student must submit a signed, written request to the Office of the Registrar. Students may submit the request in person or by writing to: Office of the Registrar, Keystone College, One College Green, PO Box 50, La Plume, PA 18440-1099. Exceptions will be made for

transcripts issued to parents or guardians who provide documentation that the student meets the federal guidelines as a dependent student, or upon subpoena by court order.

Keystone College does not fax transcripts or accept faxed requests for transcripts. Transcript requests will not be processed until the required fee is paid. Transcripts are usually processed within three to five days of receipt of the request. However, the processing time may be longer during certain times of the academic year, such as registration periods, final exam week, and the week leading up to Commencement.

A \$5 fee is charged for all transcript requests. No records will be released if the student's financial account with Keystone College has not been cleared.

### Term Honors

A student will earn term honors by meeting all of the following criteria:

1. Achieving the required semester grade point average (GPA) for the semester:

|                         |                  |
|-------------------------|------------------|
| <b>President's List</b> | <b>4.00</b>      |
| <b>Dean's List</b>      | <b>3.70-3.99</b> |
| <b>Honors List</b>      | <b>3.50-3.69</b> |

2. Earning a grade of "C" or higher in all courses completed during the semester.
3. Completing a minimum of 12 credits with no incomplete grades in non-repeated courses during the semester. Because "P" grades are not used in calculating averages, pass/fail credits cannot count in meeting the 12-credit minimum.

### Graduation Honors

A student will earn graduation honors by meeting all of the following criteria:

1. Achieving the required cumulative grade point average (GPA) at the time of graduation:
 

|                 |             |
|-----------------|-------------|
| Summa Cum Laude | 3.90 - 4.00 |
| Magna Cum Laude | 3.70 - 3.89 |
| Cum Laude       | 3.50 - 3.69 |

2. Having no more than one-fifth of the total credits earned at Keystone used toward meeting graduation requirements in pass/fail courses.

## ACADEMIC POLICIES

### Academic Grievance

In the case of an academic grievance, the following steps must be taken:

1. The aggrieved student must confer with the faculty member in question. If the grievance is not settled, then:
2. The aggrieved student must approach the division chairperson. The chair shall arrange a conference of the faculty member, the student, and the chair to seek an agreement.

If the grievance is not settled, then:

3. The aggrieved student must approach the Vice President for Academic Affairs, who shall arrange a conference of the faculty member, the student, the division chairperson, and the Vice President for Academic Affairs to seek a resolution.

If the grievance is not settled, then:

4. The Vice President for Academic Affairs shall refer the grievance to the Academic Grievance Board.

5. In cases where a student is grieving an action, this procedure must be initiated by the student within three weeks of the occurrence and completed within six months of the occurrence. In cases of Academic Misconduct, the Vice President for Academic Affairs will initiate the process within three weeks of the occurrence and it must be completed within six months.

The Academic Grievance Board shall consist of:

1. Two students and one student alternate (sophomores with minimum GPA of 2.5) chosen annually by the Student Senate.
2. Two tenured faculty members and one alternate selected annually by the Faculty Senate. A faculty member must be excused if he or she is involved in the grievance.

3. The Committee shall be chaired by the Chair of Faculty Senate.

The Academic Grievance Board shall proceed as follows:

1. The Chair shall rule on all procedural matters.

2. The proceedings shall be attended by the student, an adviser of the student's choosing (who may speak only to the student but may not address the Board), the faculty member, an adviser of the faculty member's choosing (who may speak only to the faculty member but may not address the Board), relevant witnesses, and the Board. The student and/or faculty member should present a list of witnesses to the Chair, who disseminates it to the Board 24 hours before the hearing. At the request of the student or the faculty member, and subject to the approval of the Chair, the Board may invite others.

3. The student shall present to the Board. The student may support his/her position with relevant witnesses and supporting material.

4. The faculty member shall then make his/her presentation to the Board. The faculty member may support his/her position with relevant witnesses and supporting material.

5. The Board may present its own witnesses.

6. The student shall have the opportunity to question the faculty member and all witnesses.

7. The faculty member shall have the opportunity to question the student and all witnesses.

8. The members of the Board shall have the opportunity to question the student, the faculty member, and all witnesses.

9. The Board shall deliberate in private and shall decide the issue by a majority vote (each of the five members has one vote). The Board shall announce its decision to the faculty member and the student on the following day.

10. A written report summarizing the proceedings and reporting the decision shall be prepared by the Chair. In addition, an audio record and/or written minutes of the proceedings, not including the Board's

deliberations, will be taken.

11. A letter to the student and faculty documenting the Board's decision is sent by the Chair. If the decision supports the student, a copy of the letter is included in the faculty member's file. If the decision does not support the student, no copy is included in the file.

12. This concludes the appeal process. The decision of the Board is final.

## **Academic Probation**

Students are placed on academic probation if they have attempted 0-19 credits and their cumulative GPA is less than 1.75; they have attempted 20-38 credits and their cumulative GPA is less than 1.50; or they have attempted 39-59 credits and their cumulative GPA is less than 1.90. Students on academic probation may not take more than 15 credits for the semester. Once students are on academic probation, they must earn at least a 2.00 GPA in subsequent semesters or be subject to academic suspension from the College.

All students on academic probation will be required to participate in special academic programs. Students who do not adhere to the terms of these programs will be academically suspended from the College.

Transfer students are also expected to attain the minimum GPA in courses taken at Keystone College. Grades of courses transferred from another college are not included when calculating the GPA at Keystone.

Students will be removed from academic probation when they earn a cumulative GPA of 2.00 or higher.

## **Academic Suspension**

Academic suspension is a temporary separation of the student from Keystone College for a lack of academic progress. Students who earn a semester GPA of 0.00 are subject to academic suspension. Students who have attempted or earned 60 or more credits and have a cumulative GPA less than 2.00 are subject to academic suspension. Students who are

accepted with transfer probation status that earn a semester GPA of less than 2.00 are subject to academic suspension. Students who have served their suspension must apply for readmission to the College (see page 10).

### **Academic Dismissal**

Academic dismissal is a permanent separation from the College due to continued poor scholarship.

### **Academic Fresh Start**

The Academic Fresh Start policy is designed to forgive the grades of those students who attended college and were not ready for the rigors of higher education at that time.

1. The student must formally request the fresh start, in writing, to the Dean of the College, who will then bring the request to the Standing of Students committee.
2. The student must have been separated from Keystone College for a minimum of seven years and the forgiven coursework may not have been used to confer a degree either by Keystone College or any other institution.
3. The forgiven courses must have been taken before the separation from Keystone College. They do not apply to courses taken after the academic fresh start.
4. The entire term or terms are forgiven. A student may not choose individual courses or semesters. It is an all-or-nothing policy.
5. The forgiven grades are shown as “WF” on the academic transcript, and are not factored in the grade point average.
6. The student must achieve a grade point average of 2.00 or higher in their first semester of academic fresh start or suspension will result.

### **Academic Honesty**

1. Academic integrity is expected in all class-related endeavors, including e-learning. Students who have questions regarding issues of academic dishonesty/misconduct should refer to the College regulations, which outline unacceptable behaviors in academic matters.

2. Faculty members who discover evidence of academic dishonesty/misconduct should arrange to meet with the student as soon as possible to discuss the allegation. The faculty member informs the Division Chair and the Vice President for Academic Affairs of the act and these offices will determine whether the student has been found responsible for an incident of academic misconduct in the past.

3. If the student has no prior record of academic misconduct, acknowledges the act of academic dishonesty/misconduct and the faculty member is satisfied that the incident has been effectively resolved, then:

- a. the faculty member will discuss with the student the College-wide policy on academic honesty, and the repercussions of this act included in the course syllabus;
- b. the faculty member will forward a written summary of the incident and the resolution to the Division Chair and the Vice President for Academic Affairs; The Chair and the Vice President for Academic Affairs will keep this record on file until the student graduates.
- d. if the student has no past occurrences of academic misconduct, sanctions will range from academic probation for at least one academic year to expulsion from the College, as determined by the Vice President for Academic Affairs.
- e. if the student has past occurrences of academic misconduct, a formal hearing will be conducted by the Academic Grievance Board to determine the appropriate sanction, which may include expulsion from the College.

4. If the student denies the allegation of academic dishonesty/misconduct, or the faculty member believes the severity of the incident may warrant a sanction more severe than academic probation, then:

- a. the faculty member will forward a written summary of the incident to the Division Chair and the Vice President for Academic Affairs. This summary must contain copies of all evidence including the names of any witnesses. The Vice President for Academic

Affairs will try and resolve the issue. However, if this is not possible, the student is not in good academic standing, has had a past occurrence of academic misconduct, or the offense is so grievous the Vice President for Academic Affairs will convene the Academic Grievance Board. (See Academic Grievance)

b. the Vice President for Academic Affairs will contact the student to arrange a meeting to review the student's rights in the hearing process, the charges against the student, and the hearing procedure;

c. a formal hearing will be conducted by the Academic Grievance Board and scheduled as soon as possible to determine if a violation of College regulations has taken place and, if so, the appropriate sanction to apply; The student and the faculty member shall be allowed to speak to the Board. (See Academic Grievance)

d. no grade penalty should be assigned by the instructor until the Academic Grievance Board determines that an act of academic misconduct has occurred. If the charges cannot be resolved prior to the end of the current semester, a course grade of 'IP' should be assigned pending the outcome of the hearing;

e. the faculty member will be notified of the outcome of the hearing in order to assign grade penalties for violations.

5. Students receiving a grade penalty for alleged academic misconduct violations without adherence to the above procedure may file an academic grievance.

The Determination of the Academic Grievance Board is final.

### Satisfactory Academic Progress

A student is making satisfactory academic progress if he/she earns no less than 6 credits per academic term and no less than 24 credits per academic year, is taking courses in pursuit of a degree, and maintains a cumulative grade point average as follows:

| Attempted Credits   | Minimum Cumulative Grade Point Average |
|---------------------|--|
| 1-19 credits        | 1.0                                    |
| 20-38 credits       | 1.60                                   |
| 30-59 credits       | 1.90                                   |
| 60 or more credits* | 2.00                                   |

*\*attempted or earned*

## FERPA Policy Statement

### Overview

The Family Educational Rights and Privacy Act (FERPA), also known as the Buckley Amendment, protects the privacy of a student's educational records. All of the rights under FERPA belong to the student, once he or she has enrolled in a post-secondary institution.

### Waivers

No one other than the student is granted access to the student's educational records unless the student has signed a waiver specifically for that person. First-year and transfer students are given the opportunity to sign the waiver when they attend a Mapping Day. A waiver remains in effect throughout a student's time at Keystone College, unless he/she revokes it in writing in the Registrar's Office. Persons identified on the waiver may obtain information regarding the student's educational record; however, the waiver does not provide the ability for the designee to act on the student's behalf. Waivers are only in force while the student is enrolled at Keystone College.

### Other Types of Information

FERPA deals with students' educational records. The College maintains other records on current and former students (such as medical records, counseling records, employment records of students working for the College, and alumni records). These other records, while not specifically covered by FERPA, are still carefully safeguarded in order to protect privacy rights. Specifically, medical records are covered

by HIPAA (Health Insurance Portability and Accountability Act) and Keystone's Health Services Office follows these regulations. In addition, our Office of Human Resources follows all regulations pertaining to the employment of a student. For information on records not covered by FERPA, the student should contact the appropriate office.

## **Amending Educational Records and Registering Complaints**

Under FERPA regulations, Keystone College must allow students to inspect and review his or her educational records. A student may seek to amend those records if he or she thinks the records contain inaccurate or misleading information. However, the College is not required to consider requests for amendment that seek to change a grade or disciplinary decision, or to seek to change the opinions or reflections of a school official or other person reflected in an educational record. In addition, students have the right to file a complaint with the US Department of Education if they feel their rights under FERPA have been compromised. Any student wishing to pursue such issues should contact the Registrar's Office for appropriate processes, forms, and addresses. For more detailed information about FERPA, please visit the College's Web site at [www.keystone.edu](http://www.keystone.edu).

## **ACADEMIC PROCEDURES**

### **Class Attendance**

Keystone provides small classes so that students and faculty can interact. Class attendance and participation are considered important for the education of all students. Therefore, students are expected to attend all classes. Faculty keep attendance records and report excessive absences. Poor attendance almost always results in lower grades either directly through reduction of the course grade by the instructor or indirectly through the failure to obtain information presented in class. Each

instructor has his or her own attendance policy, which must be stated in the course syllabus. The policy describes the penalty for being absent from class. Students who do not attend the first week of classes will be subject to Administrative Withdrawal.

### **Excused Absence Policy**

When a student is required to miss class due to military service, the student is excused from class by the Registrar (via a Student Absence Form) provided the student has provided a copy of his or her orders to the Registrar prior to the scheduled absence.

The student **MUST** make up the class work missed. If a test/quiz is issued the day of the missed class, the student will take the time necessary prior to missing class to either take the test/quiz early or at the discretion of the instructor, make alternate arrangements.

### **Schedule Changes (Adding and Dropping Courses)**

A student may add a course after the term begins during the first week of the class. Students must attend the first scheduled class after adding a course, or they may lose the right to be enrolled in the course.

A student may drop a course, but only prior to the completion of the first seven weeks of the term. A student may withdraw from a course (with a "W") prior to the completion of the withdrawal period (see academic calendar page 278) A course cannot be dropped after the first two-thirds of the term unless special permission is granted by the Dean of the College; this permission will be granted only in extraordinary circumstances. Some courses however, cannot be dropped at any time unless special permission is given by the Dean of the College; this permission will only be granted in extraordinary circumstances. The courses that cannot be dropped are The First-Year Seminar (FYS 1110), Critical and Analytical Reading (ENGL 0050), and College Writing I (ENGL 1110).

Students receiving financial assistance, including loans, should consult the Office of Financial Assistance and Planning prior to dropping courses.

For the “drop” to be official, students must submit to the registrar the appropriate official form for dropping a course with the signature of their academic adviser.

The date that the student officially notifies the Registrar’s Office of his/her intent to drop/withdraw from a course is the official drop/withdraw date.

If a course is dropped during the first seven weeks of the term, the course is not recorded on the student’s official Keystone transcript. If a course is dropped during the withdrawal period (see academic calendar page 278), a grade of “W” is recorded on the student’s official transcript. A “W” does not have any impact on the student’s grade point average.

## **Academic Advising**

Upon entry to Keystone College, all students are assigned academic advisers appropriate to their majors. These academic advisers help students coordinate their academic plans during their years at the College. The academic adviser also helps the advisee plan for graduation; however, the student assumes full responsibility for meeting graduation requirements.

## **Outgoing Articulation Agreements**

Keystone has established many relationships with other four-year institutions which have resulted in both formal and informal cooperative transfer/referral agreements for students wishing to transfer after completing their associate degree program. Many of these cooperative transfer agreements involve two years of attendance at Keystone with direct transfer to the baccalaureate programs in specified academic disciplines at other four-year institutions.

Students interested in taking advantage of a transfer agreement should do the following:

1. Contact an academic adviser or head of the appropriate academic division at Keystone.
2. Contact the transfer school admissions office. Cooperative transfer agreements vary from school to school and within specific academic disciplines within schools. Agreements are continually being updated. Some agreements require a commitment during the first semester at Keystone. Some formal discipline-specific Cooperative Transfer agreements are: Allied Health fields -- Misericordia University, Thomas Jefferson University (College of Allied Health), State University of New York (SUNY), Upstate Medical University; Art -- Atlanta College of Art, Alfred University, University of Arts, Fashion Institute of Technology (toy design), The School of Visual Arts; Environmental Science -- SUNY College of Environmental Science and Forestry at Syracuse; Pre-Medical -- King’s College (Physician Assistant), SUNY Upstate Medical, Logan College, New York College of Chiropractic, Parker College of Chiropractic. Students interested in obtaining information on other programs and graduate studies may contact the Career Development Center.

## **Institutional Review Board (IRB)**

The Institutional Review Board Committee (IRB) at Keystone College is responsible for protecting the rights of human subjects who participate in research conducted by faculty, students, professional and administrative staff. The committee is charged with assuring that people engaging in research as representatives of Keystone College and people who wish to use members of the campus community as human subjects honor the ethical principles set forth by the Belmont Report (1978). Those principles are: respect for persons, beneficence, and justice. The IRB carries out its duties by reviewing research

activities that intend to use human subjects. For more detailed information regarding the IRB, please visit the College's Web site at *www.keystone.edu*.

### **Leave of Absence**

During an ongoing term, students may request a leave of absence form available at the Office of the Registrar. Once approved, a student on leave will receive an "I" as the grade for the current courses. (See page 47 for details regarding this grade.) Please note that for financial aid purposes, a leave of absence can extend only 30 days or the student may not be eligible for financial aid for the term he/she returns to Keystone. Therefore, students receiving financial aid should consult the Office of Financial Assistance and Planning before requesting a leave of absence.

Leaving the College will result in termination of the Keystone Promise contract.

### **Withdrawal from the College**

A student who wishes to withdraw from Keystone College must obtain a form from the Student Success Center and complete an interview with the Student Success Advocate. The date of the interview with the Student Success Advocate or the initial contact with the Student Success Advocate of the decision to withdraw is documented as the official date of withdrawal. The only exception to the institutionally-determined date of official withdrawal is official notification/documentation from a doctor, hospital, or other extenuating official documentation. Resident students are required to vacate within 24 hours of official withdrawal notification or penalties may be assessed. Students who do not follow this procedure will not be considered officially withdrawn and will have all appropriate grades for courses in which they are enrolled entered into their official transcripts. Refunds follow the guidelines listed in the "Refund Policy" section of this catalog on page 20.

No withdrawal may occur after the official "last day to withdraw," which is stated in the academic calendar (beginning on page 278), unless the Dean of the College grants special permission due to extraordinary circumstances.

### **Withdrawal from the College for Military Service**

Students who are called to active military service during any semester or term should immediately contact the Veterans Affairs Certifying Official located in the Registrar's Office with a copy of his or her orders. At that time, the Certifying Official will discuss all options with the student and an appropriate course of action will be determined.

# General Education Requirements

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## Philosophy of General Education

All Keystone College curricula reflect institutional student learning outcomes which are grounded in the mission and shape institutional culture. These outcomes are supported by the general education core, a series of courses that in turn provide the educational foundation to support and enhance individual curricula within a major.

Keystone College Institutional Student Learning Outcomes are as follows:

- Participating as contributing members of the community through work and service
- Demonstrating cross-cultural competencies, skills, and dispositions
- Understand the interconnectedness of global economic, political, ecological, technological, and belief systems
- Articulating well-developed perspectives on environmental sustainability
- Demonstrate competency in writing within a specific discipline;
- Recognize and reflect the self-reliance and self-motivation of lifelong learners.

The General Education Core educates students for competency in the following areas:

- Oral and written communication skills: Students will demonstrate effective oral and written communication and interpret the oral and written expression of others.
- Critical analysis and reasoning: Students will engage in analytical and evaluative thinking aimed at continuous improvement.
- Quantitative and scientific reasoning: Students will apply mathematic and scientific concepts and theories to identify and analyze problem-solving situations.
- Information and technology literacy: Students will research, create and communicate information using technology or media.
- Creativity: Students will explore, use, and evaluate the creative processes that shape human experience.
- Personal and social responsibility: Students will recognize and engage in personal and social behaviors necessary for the wellness of self and the community.

Students will meet these competencies by taking required courses and choosing other courses identified as meeting each outcome.

## General Education Curriculum

ENGL 0050 - Critical and Analytical Reading – All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

The following requirements must be met according to the type of degree pursued:

### **Baccalaureate Degrees:**

Competencies (39 credits minimum):

FYS 1110 - The First-Year Seminar

ENGL 1110 - College Writing I: Academic Writing

ENGL 1125 - College Writing II: Writing about Literature

COMM 1125 - Speech Communication

Natural Science Lab Elective - one course, 3 credits minimum

Mathematics Elective - one course, 3 credits minimum

Mathematics or Natural Science Elective - 2000-level – one course, 3 credits minimum

Arts and Humanities Electives - two courses, 6 credits minimum

Two courses from two different disciplines, one of which must be a 2000-level course

Health and Wellness Elective - one course, 2 credits minimum

Social and Behavioral Sciences Electives - two courses, 6 credits minimum

Two courses from two different disciplines, one of which must be a 2000-level course

Technology Elective - one course, 3 credits minimum

Ethics Elective - one course, 3 credits minimum

### **Associate Degrees (Arts or Science):**

Competencies (33 credits minimum):

FYS 1110 - The First-Year Seminar

ENGL 1110 - College Writing I: Academic Writing

ENGL 1125 - College Writing II: Writing about Literature

COMM 1125 - Speech Communication

Mathematics Elective - one course, 3 credits minimum

Natural Science Laboratory Elective - one course, 3 credits minimum

Arts and Humanities Electives - two courses, two different disciplines, 6 credits minimum

Social and Behavioral Sciences Electives - two courses, two different disciplines, 6 credits minimum

Health and Wellness Elective - one course, 2 credits minimum

Technology Elective - one course, 3 credits minimum

### **Associate in Applied Science:**

Competencies (21 credits minimum):

FYS 1110 - The First-Year Seminar

ENGL 1110 - College Writing I: Academic Writing

ENGL 1125 - College Writing II: Writing about Literature

COMM 1125 - Speech Communication

Mathematics Elective - one course, 3 credits minimum

Natural Science Elective - one course, 3 credits minimum

or Arts and Humanities Elective - one course, 3 credits minimum

or Social and Behavioral Sciences Elective - one course, 3 credits minimum

Health and Wellness Elective - one course, 2 credits minimum

Technology Elective - one course, 3 credits minimum

## **Associate in Fine Arts:**

Competencies (30 credits minimum):

FYS 1110 - The First-Year Seminar

ENGL 1110 - College Writing I: Academic Writing

ENGL 1125 - College Writing II: Writing about Literature

COMM 1125 - Speech Communication

Mathematics Elective - one course, 3 credits minimum

Natural Science Elective - one course, 3 credits minimum

Arts and Humanities Electives - two courses, two different disciplines, 6 credits minimum

Social and Behavioral Sciences - one course, 3 credits minimum

Health and Wellness Elective - one course, 2 credits minimum

Technology Elective - one course, 3 credits minimum

## **The Keystone Experiences**

In addition to the General Education core and the student's chosen major, all students will participate in the Keystone Experience. These experiences are intended to enhance student classroom learning in ways that will help them use their college education for professional success. The Keystone Experiences may be separate credit-bearing courses, or they may be embedded within credit-bearing courses, or they may be non-credit-bearing. The Keystone Experiences, while they are part of the General Education Requirements, are usually administered through the student's major, in keeping with Keystone's philosophy that General Education and the major curricula are integral to one another.

**The First-Year Student Experience** – This Experience is achieved through FYS 1110: The First-Year Seminar, taken in the first semester. The course assists students in becoming a part of the Keystone community, while enhancing their study and learning skills and helping them understand what it means to be a scholar in their chosen discipline.

**Real World Experience** – This Experience is accomplished through Experiential Learning (EXPL), Field Experience, Practicum, or other off-campus experience. In some circumstances the Real-World Experience may be completed on-campus. It assists students in determining if they have chosen a major discipline in which they enjoy working.

**Bridge Experience** – This Experience is a culminating project integrating all of a student's work done in the first two years. It is intended as a "bridge" to further study as a rising junior or as a "bridge" to the world of work.

**Portfolio Development Experience** – This Experience is intended to help students begin creating a professional portfolio that can be used to document their achievements and qualifications. It is usually accomplished as part of a course in the sophomore or junior years.

**Capstone Experience** – This Experience is intended as a final project, usually completed in the last semester. The project allows students to show that they are prepared to succeed in their chosen field.

Students transferring to Keystone College may have completed many of the General Education requirements. The Registrar, in conjunction with faculty, will determine whether or not students have met the criteria for General Education Requirements and the Keystone Experience.

## General Education Courses

Students who enroll in a degree program at Keystone College will complete a core of courses referred to as General Education. This course distribution is intended to ensure that students have met the General Education Goals.

\*When fulfilling the General Education curriculum, any given discipline may only be used to fulfill one area.

ENGL 0050 - Critical and Analytical Reading – All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

### Communication

Students will successfully complete the courses listed below. These courses may not be used to satisfy any of the Institutional Outcomes.

FYS 1110 - First Year Experience

ENGL 1110 - College Writing I: Academic Writing

ENGL 1125 - College Writing II: Writing About Literature

COMM 1125 - Speech Communication

### Natural Sciences

\* indicates a lab course

BIOL 1001\* - Newsworthy Topics in Biology

BIOL 1003\* - Human Health Issues

BIOL 1110\* - Human Anatomy and Physiology I

BIOL 1115\* - Human Anatomy and Physiology II

BIOL 1010 - Introduction to Field Biology

BIOL 1120\* - Environmental Science

BIOL 1125\* - General Biology I

BIOL 1130\* - General Biology II

BIOL 1135\* - Introduction to Forensic Science I

BIOL 2001 - Biological Dimensions of Human Sexuality

BIOL 2002 - Nutrition

BIOL 2003 - Life Cycle Nutrition

BIOL 2115\* - Microbiology

BIOL 2120\* - Introductory Ecology

BIOL 2125 -Genetics

BIOL 2130 - Biological Anthropology

BIOL 2010 - Special Topics

BIOL 2140\* - Introduction to Forensic Science II

BIOL 3110\* - Cell Biology

BIOL 3115 - Wetland and Riparian Ecology

BIOL 3135\* - Limnology

BIOL 3140\* - Forensic Anthropology

BIOL-3125 - Biochemistry I

BIOL 3130\* - Biochemistry II

CHEM 1120\* - General Chemistry I

CHEM 1125\* - General Chemistry II

CHEM 2110\* - Organic Chemistry I

CHEM 2115\* - Organic Chemistry II

CHEM 2120\* - Environmental Chemistry

CHEM 3110\* - Forensic Chemistry

ENVT 3105 - Soils Science

ENVT 3115 - Geospatial Methods in Resource Management

ENVT 3135\* - Hydrology

GEOL 2011 - Special Topics: Earthquakes and Volcanoes

GEOL 2110\* - Physical Geology

GEOL 2115 - Earth Systems History

GEOL 3110 - Petroleum Geology

GEOL 3115\* - Structural Geology

GEOL 3120 - Mineralogy

PBHL 1110 - Public Health

PBHL 2110 - Epidemiology

PBHL 2115 - Public Health Biology

PBHL 3010 - Special Topics: Maternal and Child Health  
PBHL 3110- Global Health  
PBHL 3115 - Environmental Health  
PHSC 1125 - Meteorology  
PHSC 1135\* - Geology  
PHSC 1140 - Energy and the Environment  
PHSC 1145 - Global Change – Introduction to Earth Systems  
PHSC 2120 - Astronomy I  
PHSC 2125\* - Astronomy I with Laboratory  
PHSC 2130 - Life in the Universe  
PHSC 2135 - Astronomy II  
PHSC 2140\* - Astronomy II with Laboratory  
PHYS 2110\* - General Physics I  
PHYS 2125\* - General Physics II  
PHYS 3110 - Astrophysics

## **Mathematics**

MATH 1125 - College Algebra  
MATH 1135 - Trigonometry  
MATH 1140 - College Mathematics I  
MATH 1150 - College Mathematics II  
MATH 1155 - Pre-Calculus  
MATH 2110 - Mathematics Throughout History  
MATH 2115 - Statistics  
MATH 2120 - Statistics for the Social Sciences  
MATH 2150 - Calculus I  
MATH 2155 - Calculus II  
MATH 3110 - Communications in Math  
MATH 3113 - Linear Algebra  
MATH 3115 - Discrete Mathematics  
MATH 3120 - Statistics and Research  
MATH 3125 - Modern Geometry  
MATH 3135 - Abstract Algebra  
MATH 3140 - Calculus III  
MATH 3145 - Differential Equations  
MATH 3150 - Number Theory  
MATH 3155 - Probability  
MATH 3160 - Statistics for the Sciences

## **Technology**

ART 1145 - Electronic Media in the Arts  
ART 2135 - Fundamentals of Graphic Design  
ART 3130 - Typography

ART 3135 - Graphic Design II  
CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II  
CHEM 2110 - Organic Chemistry I  
CHEM 2115 - Organic Chemistry II  
CHEM 2120 - Environmental Chemistry  
CHEM 3115 - Instrumental Analysis  
COMM 2155 - Introduction to Radio Production  
COMM 2160 - Digital Video Production  
COMM 3013 - Special Topics: Directing Digital Film  
COMM 3014 - Special Topics: Producing Digital Film  
COMM 3015 - Special Topics: Advanced Digital Media Production  
COMM 3017 - Special Topics: Advanced Video Production  
COMM 3022 - Special Topics: Electronic Publishing  
COMM 3023 - Special Topics: Web Design for Multimedia  
COMM 3125 - Advanced Audio Production  
EDUC 4160 - Electronic Media for Teachers  
ENVT 2110 - GIS/GPS  
ENVT 2115 - GIS Homeland Security Application  
IT 1110 - Introduction to Information Technology  
IT 1115 - PC Office Applications  
IT 1120 - Introduction to Programming  
IT 1130 - Web Programming I  
IT 2110 - Intermediate PC Office Applications  
MATH 2115 - Statistics  
MATH 3120 - Statistics and Research  
MATH 3125 - Modern Geometry  
PSYC 3125 - Research Methods for the Social and Behavioral Sciences  
SOSC 4910 - Research Implementation and Analysis

## **Ethics**

ART 4810 - Professional Practices  
BIOL 2145 - Bioethics  
BUSN 3300 - Business Ethics  
CJ 3300 - Professional Ethics

COMM 3120 - Communication Ethics  
EDUC 4910 - Seminar: Contemporary Research,  
Issues, and Ethics in Education  
ENVT 2120 - Environmental Ethics  
IT 3300 - Ethical and Societal Concerns in  
Information Technology  
JOUR 3300 - Journalism Ethics  
PSYC 3330 - Ethics and Issues in Psychology  
SRM 3330 - Sport Ethics

**Arts and Humanities:** When satisfying the arts/humanities electives, students may choose courses from two different disciplines.

ARHI 1001 - Art History Survey I  
ARHI 1002 - Art History Survey II  
ARHI 3001 - Modern and Post-modern Art  
ART 1110 - Color Theory  
ART 1115 - Introduction to Studio Art  
ART 1120 - Drawing and Composition  
ART 1125 - Figure Drawing I  
ART 1130 - Two-Dimensional Design  
ART 1135 - Three-Dimensional Design  
ART 2115 - Drawing and Composition II  
ART 2125 - Figure Drawing II  
ART 2135 - Fundamentals of Graphic Design  
ART 2140 - Fundamentals of Crafts  
ART 2145 - Fundamentals of Ceramics  
ART 2155 - Fundamentals of Glass  
ART 2160 - Fundamentals of Photography  
ART 2175 - Fundamentals of Sculpture  
ART 2185 - Fundamentals of Painting  
ART 2190 - Fundamentals of Printmaking  
ART 3010-3030 - Special Topics in Art  
ART 3115 - Digital Projects  
ART 3120 - Book Arts  
ART 3125 - Color Photography  
ART 3130 - Typography  
ART 3135 - Graphic Design II  
ART 3145 - Ceramics II  
ART 3155 - Glass II  
ART 3160 - Photography II  
ART 3170 - Sculpture II  
ART 3180 - Painting II  
ART 3185 - Printmaking II  
ARTH 3005 - Experiencing the Arts

ARTH 3085 - Art Therapy  
COMM 1115 - Interpersonal Communication  
COMM 1120 - Mass Communication  
COMM 2145 - Public Relations  
COMM 3110 - Communication Theory  
COMM 3120 - Communication Ethics  
COMM 3010 - Special Topics in  
Communication: Mass Media & Society  
COMM 3016 - Special Topics in  
Communication: Leadership Communication  
COMM 3018 - Special Topics in  
Communication: Intercultural Communication  
COMM 3135 - Small Group Communication  
COMM 4010 - Critical Issues in Communication  
COMM 4115 - Gender and Communication  
EDUC 3210 - Teaching English Language  
Learners  
ENGL 2110 - American Literature I  
ENGL 2115 - American Literature II  
ENGL 2120 - Western World Literature I  
ENGL 2125 - Western World Literature II  
ENGL 2145 - Creative Writing  
ENGL 2155 - Introduction to Poetry  
ENGL 2160 - Introduction to the Novel  
ENGL 2165 - Introduction to Dramatic  
Literature  
ENGL 3010-3014 - Special Topics  
in Creative Writing  
ENGL 3015 - Great Themes in Literature  
ENGL 3115 - Children's Literature  
ENGL 3024-3027 - Advanced Study in  
Literature  
FILM 1110 - Introduction to Cinema  
FILM 3005 - Special Topics in Film  
HIST 1110 - The Making of the Modern World  
HIST 1115 - Western Civilization  
HIST 1130 - United States History I  
HIST 1135 - United States History II  
HIST 3110/POSC 3115 - Civil Rights  
in America  
HIST 3115/POSC 3125 - United States  
History Since 1945  
HIST 3120 - History of the Civil War  
JOUR 3115 - Women in Journalism  
LEAD 1110 - Foundations of Leadership

LEAD 3110 - Profiles in Leadership  
LEAD 4910 - Dynamics of Leadership  
MATH 3110 - Communications in Mathematics  
MUSC 1110 - Introduction to Music  
MUSC 3110 - History of Jazz  
PHIL 1110 - Introduction to Philosophy I  
PHIL 1115 - Introduction to Philosophy II  
RELG 2110 - Survey of World Religions  
SPAN 1110 - Elementary Spanish I  
SPAN 1115 - Elementary Spanish II  
SPAN 2110 - Intermediate Spanish I  
THEA 1120 - Introduction to Theatre  
THEA 1125 - Acting I: The Basics of Performance  
THEA 2120 - Survey of Technical Theatre  
THEA 2125 - Acting II: Techniques and Styles  
THEA 3110 - Directing for the Stage

### **Health and Wellness**

BIOL 2001 - Biological Dimensions of Human Sexuality  
BIOL 2002 - Nutrition  
ECE 2160 - Health and Wellness of Young Children  
EDUC 3140 - Family Health and Safety  
PHED 1110 - Wellness and Fitness  
SRM 1010 - Lifetime Activities

### **Social and Behavioral Sciences**

ANTH 1110 - Introduction to Cultural Anthropology  
ANTH 2110 - Peoples and Cultures of Africa  
ANTH/BIOL 2130 - Biological Anthropology  
BUSN 4115 - Organizational Behavior  
CJ 1115 - Introduction to Criminal Justice  
CJ 2110 - Criminology  
CJ 2125 - Juvenile Delinquency  
CJ 2135 - Policing in America  
CJ 2140 - Corrections in America  
CJ 3115 - Criminal Evidence and Court Procedures  
CJ 3120 - Criminal Investigation  
CJ 3130 - Homeland Security  
CJ 3135 - Juvenile Justice System  
CJ 3160 - Probation, Parole, and Community

CJ 3165 - Terrorism  
CJ 3170 - Criminal Profiling  
CJ 3175 - Restorative Justice  
CJ 4110 - Criminalistics  
CJ 4120 - Court Organization and Operation  
CJ 4010 - Selected Topics in Criminal Justice  
CJ 4130 - Police Operations and Management  
CJ 4140 - Community Oriented Policing  
CJ 4145 - Social Justice  
ECON 2110 - Principles of Economics I  
ECON 2115 - Principles of Economics II  
ECON 3110 - Money and Banking  
EDUC 2110 - Foundations of Education  
EDUC 2115 - Educational Psychology  
EDUC 2130 - Child, Family, and Community  
GEOG 1110 - Introduction to Geography  
GEOG 3110 - Cultural Geography  
HIST 3110/POSC 3115 - Civil Rights in America  
HIST 3115/POSC 3125 - United States History Since 1945  
HIST 3120 - History of the Civil War  
LEAD 2110 - Team Building  
LEAD 3115 - Civic Responsibility  
POSC 1110 - American National Government  
POSC 2110 - State and Local Government  
POSC 2130 - International Relations  
POSC 3130 - Public Policy  
POSC 3110 - Constitutional/Criminal Law  
POSC 3120 - Comparative Government  
PSYC 1110 - General Psychology  
PSYC 2110 - Developmental Psychology  
PSYC 2115 - Child Psychology  
PSYC 2190 - Child Development I (Ages 0-5)  
PSYC 2195 - Child Development II (Ages 5-13)  
PSYC 2205 - Psychology of Adolescence  
PSYC 2210 - Adulthood and Aging  
PSYC 2215 - Drugs and Behavior  
PSYC 2230 - Cognitive Psychology  
PSYC 2235 - Learning and Behavior  
PSYC 3110 - Theories and Personality  
PSYC 3115 - Social Psychology  
PSYC 3125 - Research Methods for the Social and Behavioral Sciences  
PSYC 3130 - Psychopathology

PSYC 3140- Psychological Tests and  
Measurement  
PSYC 3145 - Forensic Psychology  
PSYC 3150 - Psychology of Trauma  
PSYC 3155 - Evolutionary Psychology  
PSYC 3160 - Psychology of Film  
PSYC 3165 - Play, Cognition, and Learning  
PSYC 3170 - Health Psychology  
PSYC 3300 - Ethics and Issues in Psychology  
SOC1 1110 - Introduction to Sociology  
SOC1 2120 - The Sociology of Social Problems  
SOC1 2125 - The Family  
SOC1 3110 - Sociology of Diversity  
SOC1 3120 - Social Deviance  
SPEC 2110 - Characteristics and Needs of  
Exceptional Learners  
SRM 2120 - Sociology of Sport and Recreation  
SRM 2125 - Economics of Sport

## **Institutional Goals - Course Requirements**

Courses listed below are intended to ensure that students have met the Institutional Goals of Keystone College. Institutional Goals cannot be met with transfer courses.

### **Service Learning Perspective**

ACCT 4110 - Advanced Accounting  
ART 2135 - Fundamentals of Graphic Design  
ART 3135 - Intermediate Graphic Design  
ART 4910 - Advanced Graphic Design/  
Senior Seminar  
BUSN 2545 - SIFE  
BUSN 3300 - Business Ethics  
CJ 4014 - Special Topics in Criminal Justice:  
Justice Behind Walls  
CJ 4145 - Social Justice  
EDUC 1110 - Introduction to Teaching  
LEAD 1110 - Foundations of Leadership  
LEAD 3115 - Civic Responsibility  
PBHL 3110 - Global Health  
POSC 2110 - State and Local Government  
POSC 3110 - Constitutional/Criminal Law  
SRM 2110 - Program Development and Planning  
SRM 3135 - Facilitation of Leadership

### **Diversity Perspective**

ANTH 1110 - Cultural Anthropology  
ANTH 2130 - Biological Anthropology  
ART 2170 - Field Study in Art History Abroad  
BIOL 2003 - Lifecycle Nutrition  
BIOL 2145- Bioethics  
COMM 2155 - Introduction to Radio Production  
COMM 4115 - Gender and Communication  
EDUC 2130 - Child, Family, and Community  
EDUC 3210 - Teaching English Language Learners  
ENGL 2165 - Introduction to Dramatic Literature  
ENGL 3115 - Children's Literature  
GEOG 3110 - Cultural Geography  
HIST 3110 /POSC 3115 - Civil Rights in America  
HRM 1110 - Introduction to Human  
Resource Management  
HRM 2110 - Employment Law  
MATH 2110 - Mathematics throughout History  
MUSC 1110 - Introduction to Music  
PBHL 3110 - Global Health  
POSC 2110 - State and Local Government

RELG 2110 - Survey of World Religions  
SOC1 1110 - Introduction to Sociology  
SOC1 3110 - Sociology of Diversity  
SPEC 3115 - Differentiated Instruction for  
Diverse Learners  
SRM 2110 - Program Development and Planning

### **Global Perspective**

ANTH 1110 - Cultural Anthropology  
ANTH 2110 - People and Cultures of Africa  
ANTH 2115 - People and Cultures of the  
Middle East  
ANTH 2120 - Peoples and Cultures of Asia  
ART 2170 - Field Study in Art History Abroad  
BIOL 1120 - Environmental Science  
BIOL 2018 - Special Topics in Biology:  
Operation Rubythroat  
COMM 3018 - Special Topics: Intercultural  
Communication  
ECON 2110 - Principles of Economic I  
ENGL 2160 - Introduction to the Novel  
ENVT 4115 - Case Study Field Trip: Costa Rica  
GEOG 1110 - Introduction to Geography  
GEOG 3110 - Cultural Geography  
HIST 1110 - The Making of the Modern World  
MATH 2110 - Mathematics throughout History  
PBHL 3110 - Global Health  
POSC 2130 - International Relations  
POSC 3120 - Comparative Government  
RELG 2110 - Survey of World Religions  
SRM 2125 - Economics of Sport and Recreation  
Any Keystone College approved Study Abroad  
Experience

### **Environmental Sustainability Perspective**

BIOL 1010-1056/1058-1068 - Field Biology<sup>1</sup>  
BIOL 1120 - Environmental Science  
BIOL 2130 - Introductory Ecology  
BIOL 2145 - Bioethics  
BIOL 3115 - Wetland and Riparian Ecology  
CHEM 2120 - Environmental Chemistry  
ECON 2115 - Principles of Economics II

ENGL 3015 - Great Themes in Lit: Nature and the Environment  
ENVT 2120 - Environmental Ethics  
ENVT 2125 - Environmental Policy and Management  
ENVT 3130 - Environmental Law  
PHSC 1140 - Energy and the Environment  
PHSC 1145 - Global Change  
PHSC 2110 - Physical Geology  
PHSC 2115 - Earth Systems History  
SRM 2115 - Facilities Management  
SRM 2125 - Economics of Sport and Recreation  
'BIOL 1057 does NOT fulfill this perspective

### **Self-Directed and Independent Learning Perspective**

ACCT 4710 - Accounting Internship  
ACCT 4910 - Senior Seminar/Capstone  
ART 2510-2595 - Independent Study in Art  
ART 3510-3615 - Independent Study in Art  
ARTH 4085 - Art Therapy Fieldwork  
ART 4910/4912/1913/4914 - Advanced Graphic Design/Senior Seminar  
ART 4921/4922/4923/4924 - Advanced Ceramics/ Senior Seminar  
ART 4931/4932/4933/4934 - Advanced Glass/Senior Seminar  
ART 4941/4942/4943/4944- Advanced Photography/Senior Seminar  
ART 4951/4852/4953/4954 - Advnaced Sculpture/Senior Seminar  
ART 4961/4962/4963/4964- Advanced Painting/Senior Seminar  
ART 4971/4972/4973/4974- Advanced Printmaking/Senior Seminar  
ART 4510-4565 - Independent Study in Art  
BIOL 4810 - Seminar and Research  
BIOL 4910 - Capstone Research Project  
BUSN 4710 - Internship  
BUSN 4910 - Business Policy Capstone  
COMM 4710 - Communication Internship  
COMM 4810 - Capstone Seminar I  
COMM 4910 - Capstone Seminar II  
CJ 2710 - Field Experience I  
CJ 4510 - Independent Study in Criminal Justice  
CJ 4710 - Field Experience II

CJ 4910 - Senior Seminar  
CULN 2710 - Culinary Field Experience  
ECE 2715 - Community-Based Early Childhood Experiences  
EDUC 4710-4750 - Student Teaching (all levels)  
EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
ENVT 4715 - Environmental Resource Management Internship  
ENVT 4910 - Watershed Resource Management  
EXPL 2110/2115/2120 - Experiential Learning  
HRM 4715 - Internship  
HSER 4710 - Field Experience  
IDS 1510-4510 - Independent Study Courses  
IT 4710 - Information Technology Internship  
IT 4910 - Current Topics in Information Technology  
LEAD 4910 - Dynamics of Leadership Application  
PSYC 2510 - Independent Study – Psychology  
PSYC 3510-3520 - Independent Study – Psychology  
PSYC 4510-4515 - Independent Study – Psychology  
PSYC 4715 - Field Experience and Seminar in Psychology  
PSYC 4910- Senior Seminar in Psychology  
SOSC 4710 - Internship in the Social Sciences  
SOSC 4910 - Research Analysis  
SRM 2715 - Internship  
SRM 4715 - Senior Internship  
SRM 4910 - Senior Seminar

### **Writing Intensive Perspective**

ARHI 3001 - Modern and Post Modern Art  
BIOL 3140 - Forensic Anthropology  
BIOL 4810 - Seminar and Research  
BIOL 4910 - Capstone Research Projects  
BUSN 2130 - Written Communication  
COMM 3110 - Communication Theory  
COMM 3120 - Communication Ethics  
COMM 3135 - Small Group Communication  
COMM 4010 - Critical Issues in Communication  
COMM 4115 - Gender and Communication  
CJ 4910 - Senior Seminar  
ENGL 2110 - American Literature I  
ENGL 2115- American Literature II  
ENGL 2120 - Western World Literature I  
ENGL 2125 - Western World Literature II

ENGL 2160 - Introduction to Novel  
ENGL 2165 - Introduction to Dramatic Literature  
ENGL 3010-3014 - Special Topics in  
    Creative Writing  
ENGL 3015 - Great Themes in Literature  
ENGL 3024-3027 - Advanced Study in Literature  
ENGL 3115 - Children's Literature  
ENGL 3120 - Technical Writing  
ENVT 2120 - Environmental Ethics  
JOUR 1110 - Introduction to Journalism  
JOUR 2110 - Feature Writing  
JOUR 3110 - Broadcast Writing  
PBHL 2110 - Introduction to Epidemiology  
PHSC 2130 - Life in the Universe  
POSC 3120 - Comparative Government  
PSYC 4910 - Senior Seminar in Psychology

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# Baccalaureate Degree Programs

## Accounting Bachelor of Science

Curriculum Coordinator: Patti Davis, Ph.D., Professor

The flexibility of the accounting major at Keystone College provides students with the opportunity to focus on courses designed to help prepare them for the CPA exam, the CMA exam, or any of the many general accounting career options.

In today's fast-paced corporate environment, accountants play a vital role in any successful company. Accountants undertake challenging and rewarding tasks, ranging from developing merger and acquisition strategies to supervising quality-management programs and using advanced information systems to track financial performance.

A degree in accounting from a program that offers a sound academic foundation and valuable professional experience can be the starting point for a successful business career. This degree may be completed entirely online.

Students who have completed their associate in applied science in accounting at Keystone College may apply to the bachelor of science program.

Non-accounting majors may minor in accounting (see page 195). An accounting minor may be useful for students who want to manage their own business or who will work with accounting information in their field.

### Graduation Requirements

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

### General Education Requirements

Courses fulfilling the General Education Requirements can be found beginning on page 58.

### Competencies:

Arts and Humanities Elective - Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (BUSN 3300 recommended)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (MATH 1125 recommended)

Mathematics/Natural Science Elective - 2000-level (MATH 2115 recommended)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1(3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (ECON 2110 or 2115 recommended)  
Technology Elective (IT 1115 recommended)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements**

At least 36 of the 125 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

ACCT 1125 - Managerial Accounting  
ACCT 1155 - Financial Accounting  
ACCT 2110 - Intermediate Accounting I  
ACCT 2115 - Intermediate Accounting II  
ACCT 2130 - Cost Accounting  
ACCT 2140 - Intermediate Accounting III  
ACCT 2145 - Individual and Business Taxes  
ACCT 3110 - Accounting Information Systems I  
ACCT 3115 - Auditing  
ACCT 3120 - Accounting Information Systems II  
ACCT 3125 - Accounting Policy and Professional Responsibility  
ACCT 3130 - Advanced Cost Accounting  
ACCT 4110 - Advanced Accounting  
ACCT 4710 - Accounting Internship<sup>1</sup>  
ACCT 4910 - Senior Seminar/Capstone  
BUSN 2110 - Principles of Management  
BUSN 2130 - Written Communication  
BUSN 3115 - Financial Management  
BUSN 3150 - Business/Civil Law  
BUSN 3300 - Business Ethics  
BUSN 4115 - Organizational Behavior  
BUSN 4130 - Advanced Financial Management  
Curricular Elective 3000-level or higher<sup>2</sup>  
Curricular Elective 3000-level or higher<sup>2</sup>  
ECON 2110 - Principles of Economics I  
ECON 2115 - Principles of Economics II  
IT 1115 - Introduction to PC Office Applications  
IT 2110 - Intermediate PC Office Applications  
IT 2140 - Spreadsheets and Databases

MATH 2115 - Statistics

MATH 3120 - Statistics and Research

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 125 credits earned for graduation.

**Footnotes:**

<sup>1</sup>Students normally take a six-credit accounting internship. Students planning on taking the CPA or CMA exams must take the six-credit internship. All students require the signature of the curriculum coordinator to take fewer than six credits and must take sufficient curricular elective credits.

<sup>2</sup>Curricular Electives to be chosen from BUSN, IT, LEAD, or HRM courses at the 3000- or 4000-level.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

Students must obtain an average 3.00 GPA for all accounting courses. Students who do not attain this requirement will be unable to continue as accounting majors. However, the students may be eligible to continue at Keystone College in other majors.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Biological Science**

## **Natural Science - Environmental Biology Concentration**

### **Bachelor of Science**

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

The biological science major is offered in several tracks. The environmental biology track is available for those students interested in environmental issues as applied to biology. The goals of this program are to provide students with a solid scientific background in the field of environmental biology, to introduce them to useful tools that they can use in their careers (e.g., statistics, sampling methodology, GIS) and to allow them to explore applied aspects of scientific theory.

#### **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

#### **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

#### **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (3 credits minimum)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 2150 recommended)  
Mathematics/Natural Science Elective – 2000-level (BIOL 2115 recommended)  
Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences - Discipline 1 (POSC 1110 or 2110 recommended)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

#### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## Curriculum Requirements

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

BIOL 1010/1070 - Field Biology<sup>1</sup>

BIOL 1125 - General Biology I

BIOL 1130 - General Biology II

BIOL 2115 - Microbiology

BIOL 2120 - Introductory Ecology

BIOL 2125 - Genetics

BIOL 3110 - Cell Biology

BIOL 4810 - Biology Seminar and Research

BIOL 4910 - Capstone Research Projects<sup>3</sup>

CHEM 1120 - General Chemistry I

CHEM 1125 - General Chemistry II

CHEM 2110 - Organic Chemistry I

CHEM 2115 - Organic Chemistry II

ENVT 2110 - GIS/GPS

ENVT 2125 - Environmental Policy and Management

ENVT 4710 - Environmental Internship Preparation

ENVT 4715 - Environmental Internship<sup>2</sup>

GEOL 2110 - Physical Geology

GEOL 2115 - Earth Systems History

MATH 2110 - Mathematics Throughout History – or a higher level MATH course

MATH 2115 - Statistics

or MATH 3160 - Statistics for the Sciences

MATH 2150 - Calculus I

PHSC 1145 - Global Change

PHYS 2110 - General Physics I

Curricular Elective (chosen from list below)

Curricular Elective (chosen from list below)

## Curricular Electives:

BIOL 1135 - Introduction to Forensic Science I

BIOL 3115 - Wetland and Riparian Ecology

BIOL 3125 - Biochemistry I

BIOL 3135 - Limnology

BIOL 3145 - Wildlife and Fisheries Biology

CHEM 2120 - Environmental Chemistry

CHEM 3115 - Instrumental Analysis

ENVT 3105 - Soils Science

ENVT 3135 - Hydrology

Mathematics Elective - 2000 level or higher (not used as curriculum course above)

PBHL 2110 - Epidemiology

PBHL 2115 - Public Health Biology

PBHL 3115 - Environmental Health

PHYS 2125 - General Physics II

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Footnotes:**

<sup>1</sup>Students must earn a minimum of three credits of Field Biology.

<sup>2</sup>Students who do not complete six credits of internship may substitute curricular electives at the 3000-level or higher.

<sup>3</sup>Students who do not take BIOL 4910 must complete a curricular elective at the 3000-level or higher.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Biological Science**

## **Natural Science - Forensic Biology Concentration**

### **Bachelor of Science**

Curriculum Coordinator: Tammy Barette, Ph.D., J.D., Associate Professor

The forensic biology track is available for those students interested in the multidisciplinary study of forensic science. Students will study biological, chemical, and physical science methods applied to the evaluation of physical evidence related to matters of criminal and civil law. The objective of the program is to prepare students for medical school or graduate school to become: medical examiner or coroner, crime scene investigator, forensic biologist, anthropologist, toxicologist, or prepare for careers as laboratory technicians in private, state and federal forensic laboratories.

#### **Graduation Requirements**

ENGL 0050 – Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 and an average GPA of 3.00 in all curriculum courses to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

#### **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

#### **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (3 credits minimum)  
FYS 1110 - The First-Year Experience (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 2150 recommended)  
Mathematics/Natural Science Elective - 2000-level (BIOL 2115 recommended)  
Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences - Discipline 1 (PSYC 1110 recommended)  
Social and Behavioral Sciences - 2000-level - Discipline 2 (CJ 3115 recommended)  
Technology Elective (3 credits minimum, CHEM 1120 recommended)

#### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## Curriculum Requirements

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

BIOL 1110 - Anatomy and Physiology I  
BIOL 1115 - Anatomy and Physiology II  
BIOL 1125 - General Biology I  
BIOL 1130 - General Biology II  
BIOL 1135 - Introduction to Forensic Science I  
BIOL 2115 - Microbiology  
BIOL 2125 - Genetics  
BIOL 2140 - Introduction to Forensic Science II  
BIOL 3110 - Cell Biology  
BIOL 3125 - Biochemistry I  
BIOL 3140 - Forensic Anthropology  
BIOL 4810 - Biology Seminar and Research  
BIOL 4910 - Capstone Research Projects  
CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II  
CHEM 2110 - Organic Chemistry I  
CHEM 2115 - Organic Chemistry II  
CHEM 3115 - Instrumental Analysis  
CJ 1115 - Introduction to Criminal Justice  
CJ 3115 - Criminal Evidence and Court Procedures  
CJ 3120 - Criminal Investigation  
EXPL - Experiential Learning<sup>1</sup>  
MATH 2150 - Calculus I  
MATH 2155 - Calculus II  
MATH 3155 - Probability  
MATH 3160 - Statistics for the Sciences  
PHYS 2110 - General Physics I  
PHYS 2125 - General Physics II  
PSYC 1110 - General Psychology

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

### Footnotes:

<sup>1</sup>Students must earn a minimum of 1 credit of Experiential Learning.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Biological Science**

## **Natural Science - General Biology Concentration**

### **Bachelor of Science**

Curriculum Coordinator: Joseph Falcone, Ph.D., Associate Professor

The general biology track is a traditional biology curriculum with emphasis on modern biological technology. The goal of this program is to provide students with a solid scientific background in the field of biology, to introduce them to useful tools that they can use in their careers (e.g., statistics, spectroscopy) and to allow them to explore applied aspects of scientific theory. This rigorous program will prepare students for graduate studies in science, medicine, dentistry, chiropractic, physician's assistant, pharmacy, and biochemistry. There is sufficient flexibility to allow students to minor in one of several disciplines.

#### **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

#### **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

#### **Competencies:**

Arts and Humanities Elective- Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level - Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (3 credits minimum)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 2150 recommended)  
Mathematics/Natural Science Elective – 2000-level (BIOL 2115 recommended)  
Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

#### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## Curriculum Requirements

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

BIOL 1010/1036 - Field Biology<sup>1</sup>  
BIOL 1110 - Anatomy and Physiology I  
BIOL 1115 - Anatomy and Physiology II  
BIOL 1125- General Biology I  
BIOL 1130 - General Biology II  
BIOL 2115 - Microbiology  
BIOL 2120 - Introductory Ecology  
BIOL 2125 - Genetics  
BIOL 3110 - Cell Biology  
BIOL 3125 - Biochemistry I  
BIOL 3130 - Biochemistry II  
BIOL 4810 - Biology Seminar and Research  
BIOL 4910 - Capstone Research Projects<sup>5</sup>  
CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II  
CHEM 2110 - Organic Chemistry I  
CHEM 2115 - Organic Chemistry II  
CHEM 3115 - Instrumental Analysis  
EXPL - Experiential Learning<sup>2</sup>  
Mathematics Elective 2000-level or higher<sup>3</sup>  
MATH 2115 - Statistics  
MATH 2150 - Calculus I  
MATH 3120 - Statistics and Research  
PHYS 2110 - General Physics I  
PHYS 2125 - General Physics II  
Curricular Elective<sup>4</sup>  
Curricular Elective<sup>4</sup>

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

### Footnotes:

<sup>1</sup>Students must earn a minimum of 2 credits of Field Biology.

<sup>2</sup>Students must earn a minimum of 1 credit of Experiential Learning.

<sup>3</sup>MATH 2115, 2150, and 3120 do not fulfill this requirement.

<sup>4</sup>To be chosen from the following disciplines: biology, chemistry, environmental science, physical science, physics. Field Biology courses do NOT fulfill these requirements.

<sup>5</sup>Students who do not complete BIOL 4910 must take a curricular elective at the 3000-level or higher.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Biological Science Natural Science - Physical Therapy Concentration Bachelor of Science**

Curriculum Coordinator: Joseph Falcone, Ph.D., Associate Professor

The physical therapy track in biology is intended for students planning for continued doctoral studies in physical therapy at one of many universities offering that concentration of study. The curriculum is modified to meet the needs for transfer into most doctoral programs in physical therapy including Thomas Jefferson University in Philadelphia. This program offers flexibility so that one may accommodate the requirements of transfer institutions.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level - Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (3 credits minimum)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 1155 recommended)  
Mathematics/Natural Science Elective - 2000-level (BIOL 2115 recommended)  
Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences - Discipline 1 (PSYC 1110 recommended)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

## **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## Curriculum Requirements

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

BIOL 1110 - Anatomy and Physiology I

BIOL 1115 - Anatomy and Physiology II

BIOL 1125 - General Biology I

BIOL 1130 - General Biology II

BIOL 1140 - Medical Terminology

BIOL 2002 - Nutrition

BIOL 2115 - Microbiology

BIOL 2120 - Introductory Ecology

BIOL 2125 - Genetics

BIOL 3110 - Cell Biology

BIOL 3125 - Biochemistry I

BIOL 3130 - Biochemistry II

BIOL 4810 - Biology Seminar and Research

BIOL 4910 - Capstone Research Projects<sup>2</sup>

CHEM 1120 - General Chemistry I

CHEM 1125 - General Chemistry II

CHEM 2110 - Organic Chemistry I

CHEM 2115 - Organic Chemistry II

EXPL - Experiential Learning<sup>1</sup>

MATH 1155 - Pre-Calculus

MATH 2115 - Statistics

or MATH 3160 - Statistics for the Sciences

MATH 2150 - Calculus I

MATH 3120 - Statistics and Research

PHYS 2110 - General Physics I

PSYC 1110 - General Psychology

PSYC 2110 - Developmental Psychology or a higher level PSYC course

PSYC 3000 - Psychology Elective 3000-level or higher

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

### Footnotes:

<sup>1</sup>Students must earn a minimum of 1 credit of Experiential Learning.

<sup>2</sup>Students who do not complete BIOL 4910 must take a curricular elective at the 3000-level or higher.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Biological Science Natural Science - Wildlife Biology Concentration Bachelor of Science**

Curriculum Coordinator: Joseph Falcone, Ph.D., Associate Professor

The wildlife biology curriculum is designed for those students interested in the ecological and management of all animals species, ranging from those that are endangered to those that are overabundant. The goals of this program are to provide students with a solid scientific background in disciplines including plants, invertebrates, and vertebrates. The program prepares graduates for careers with local, state, and government agencies, as well as employment with environmental consulting firms, non-governmental organizations, and zoos.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level - Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (3 credits minimum) (ENVT 2120 Environmental Ethics or BIOL 2145 Bioethics recommended)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 2150 recommended)  
Mathematics/Natural Science Elective - 2000-level (BIOL 2120 recommended)  
Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences - Discipline 1 (POSC 1110 or 2110 recommended)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

## **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## Curriculum Requirements

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000-level.

BIOL 1010/1070 - Field Biology<sup>1</sup>  
BIOL 1125 - General Biology I  
BIOL 1130 - General Biology II  
BIOL 2120 - Introductory Ecology  
BIOL 2125 - Genetics  
BIOL 4810 - Biology Seminar and Research  
BIOL 4910 - Capstone Research Projects<sup>2</sup>  
CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II  
CHEM 2110 - Organic Chemistry I  
CHEM 2115 - Organic Chemistry II  
CHEM 2120 - Environmental Chemistry  
ENVT 2110 - GIS/GPS  
ENVT 2125 - Environmental Policy and Management  
ENVT 4710 - Environmental Internship Preparation  
ENVT 4715 - Environmental Internship<sup>3</sup>  
GEOL 2110 - Physical Geology  
MATH 2115 - Statistics  
MATH 2150 - Calculus I  
MATH 3120 - Statistics and Research  
Natural Science/Mathematics Elective (chosen from list below)  
PHSC 1145 - Global Change

### Natural Science/Mathematics Electives:

BIOL 1135 - Introduction to Forensic Science I  
BIOL 2115 - Microbiology  
BIOL 2011 - Special Topics: Science in Movies  
BIOL 3110 - Cell Biology  
BIOL 3115 - Wetland and Riparian Ecology  
BIOL 3125 - Biochemistry I  
BIOL 3135 - Limnology  
BIOL 3145 - Wildlife and Fisheries Biology  
BIOL 3150 - Virology  
or BIOL 3160 - Immunology  
CHEM 3115 - Instrumental Analysis  
ENVT 2115 - GIS Homeland Security Application  
ENVT 3105 - Soil Science  
ENVT 3130 - Environmental Law  
ENVT 3135 - Hydrology  
ENVT 4110 - Case Study Field Trip  
GEOL 2011 - Special Topics: Earthquakes and Volcanoes  
GEOL 2115 - Earth Systems History  
MATH 2155 - Calculus II  
PBHL 3115 - Environmental Health

PHYS 2110 - General Physics I  
PHYS 2125 - General Physics II

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Footnotes:**

<sup>1</sup>Students must successfully complete a minimum of five (5) Field Biology credits. BIOL 1013 is recommended.

<sup>2</sup>Students who do not complete BIOL 4910 must take a curricular elective at the 3000-level.

<sup>3</sup>Students who do not complete six credits of internship must take curricular electives at the 3000/4000-level to reach the six credit minimum.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Business**

## **Bachelor of Science**

Curriculum Coordinator: Janet DeAndrea, Professor  
and Dana Harris, Ph.D., Assistant Professor

The business curriculum is intended to provide the core skills and common body of professional knowledge needed for success in business or other organizations. It results in a broad and general education that is often preferred by top leaders in the emerging global economy. In addition to providing the knowledge and skills necessary to succeed as a leader in for-profit or not-for-profit organizations - this curriculum is also an ideal choice for the small business owner or future entrepreneur. The required courses are also the standard foundation for graduate study in business.

General education; however, is made even more advantageous when coupled with in-depth mastery of a technical specialty. This curriculum is designed to encompass the completion of an 18-credit minor/concentration of the student's choice. Students work closely with a designated faculty adviser to select from an extended menu of elective courses. Available business minor/concentration areas include: accounting, finance, information technology, human resource management, leadership, management, and marketing. This degree may be completed fully online.

Non-business students may minor in business (please see page 195). Because all organizations must run as a business to be successful in today's economic environment, many students may find a business minor helpful in their careers.

### **Graduation Requirements**

ENGL 0050 – Critical and Analytical Reading – All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

### **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

### **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (BUSN 3300 recommended)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (3 credits minimum)

Mathematics/Natural Science Elective – 2000-level (MATH 2115 or MATH 2120 recommended)

Natural Science Laboratory Elective (3 credits minimum)

Social and Behavioral Sciences - Discipline 1 (3 credits minimum)

Social and Behavioral Sciences - 2000-level – Discipline 2 (ECON 2110 recommended)

Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective

Environmental Sustainability Perspective Elective

Global Perspective Elective

Self-Directed and Independent Learning Perspective Elective

Service Learning Perspective Elective

Writing Intensive Perspective Elective

### **Curriculum Requirements**

At least 36 of the 120 credits required for the bachelor's degree must be 3000- and/or 4000-level courses.

ACCT 1125- Managerial Accounting

ACCT 1155 - Financial Accounting

BUSN 1110 - Introduction to Business

or SRM 1110 - Introduction to Sport and Recreation Management

BUSN 2110 - Principles of Management

BUSN 2115 - Principles of Marketing

BUSN 2510 - Current Topics in Business Seminar

BUSN 2130 - Written Communication

BUSN 3115 - Financial Management

BUSN 3130 - Work Place Environment<sup>3</sup>

or BUSN 4710 - Internship Experience<sup>1</sup>

or CULN 2710 - Culinary Field Experience<sup>1</sup>

BUSN 3150 - Business/Civil Law

BUSN 3300 - Business Ethics

BUSN 4115 - Organizational Behavior

BUSN 4145 - Strategic Business Management

BUSN 4910 - Senior Business Policy Capstone

ECON 2110 - Principles of Economics I

ECON 2115 - Principles of Economics II

HRM 1110 - Introduction to Human Resource Management

IT 2110 - Intermediate PC Office Applications

MATH 2115 - Statistics

or MATH 2120 - Statistics for the Social Sciences

MATH 3120 - Statistics and Research

### **Curricular Electives:**

At least 12 additional credits (not taken as curriculum courses above) must be taken from the following courses or others with adviser approval. Students are responsible for meeting any prerequisites.

ACCT 2130 - Cost Accounting

ACCT 2145 - Individual and Business Taxes

ACCT 3130 - Advanced Cost Accounting

BUSN 2145 - Advertising  
BUSN 2200 - Project Management  
BUSN 2510 - Current Topics in Business Seminar  
BUSN 3110 - Personal Finance  
BUSN 3130 - Workplace Environments  
BUSN 3135 - Advertising and Sales Promotion  
BUSN 3140 - Sales and Relationship Building  
BUSN 3145 - E-Marketing  
BUSN 3155 - Project Risk Management  
BUSN 3160 - Investments  
BUSN 4140 - Marketing Research Methods  
BUSN 4150 - Consumer Behavior  
BUSN 4155 - Strategic Marketing  
BUSN 4160 - Advanced Project Management  
COMM 3135 - Small Group Communication  
COMM 4115 - Gender and Communication  
ECON 3110 - Money and Banking  
ENGL 3120 - Technical Writing  
HRM 2110 - Employment Law  
HRM 3115 - Health, Safety, and Security  
HRM 3120 - Selection and Placement  
HRM 3125 - Compensation and Benefits  
HRM 3130 - Labor Relations  
HRM 3135 - Human Resource Planning  
HRM 3140 - Training and Development  
HRM 4110 - Organizational Analysis and Change  
IT 3110 - Advanced PC Office Applications  
IT 3120 - Web for Business and Management  
LEAD 1110 - Foundations of Leadership  
LEAD 2110 - Team Building  
LEAD 3110 - Profiles in Leadership  
LEAD 3115 - Civic Responsibility  
LEAD 4110 - Leadership Strategies  
LEAD 4910 - Dynamics of Leadership Application  
MATH 1155 - Pre-Calculus  
MATH 2150 - Calculus I  
MATH 3120 - Statistics and Research  
PSYC 3125 - Research Methods for the Social and Behavioral Sciences  
SOC 3110 - Sociology of Diversity  
SRM 3135 - Facilitation of Leadership

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Footnotes:**

<sup>1</sup>Internship experiences range from one to nine credits and must meet with the approval of your adviser.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Communication Arts and Humanities Bachelor of Arts**

Curriculum Coordinator: Dawn Middleton-Paradise, Assistant Professor

This bachelor of arts degree program provides students with the skills of traditional English or humanities majors, combined with the theoretical context for understanding the process of communication.

While students pursuing the bachelor of arts: communication arts and humanities degree program are not required to identify a specialization, they may work closely with their advisers to make course selections that provide emphasis in journalism, corporate/administrative communication, graphic design, photography, or photo/graphics. Digital media is also a popular minor for communication students. Each specialization and the minor consist of 18 hours of coursework chosen from approved lists that are included in this catalog.

Students who qualify may complete up to a nine-credit hour internship in their junior or senior year. Students exploring an internship must contact the communication arts and humanities curriculum coordinator.

Students who have earned an associate degree or who desire to transfer from another program or institution and are seeking admission to the bachelor's degree program must have successfully completed COMM 1115, COMM 1120, and COMM 2110. An interview between the student and the curriculum coordinator must also be completed before final acceptance into the bachelor's program.

The academic adviser assists the student in planning his/her curriculum and in pre-registration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

## **Graduation Requirements**

ENGL 0050 – Critical and Analytical Reading – All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (COMM 1115 recommended)

Arts and Humanities Elective - 2000-level – Discipline 2 (Literature Elective 2000-level recommended)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (COMM 3120, BUSN 3300, SRM 3300 or JOUR 3300 recommended)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (1 credit minimum)

Mathematics Elective (3 credits minimum)

Mathematics/Natural Science Elective - 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (IT 1115 or ART 1145 recommended)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements**

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000 and/or 4000-level.

COMM 3120 - Communication Ethics

or BUSN 3300 - Business Ethics

or JOUR 3300 - Journalism Ethics

or SRM 3300 - Ethics in Sport

IT 1115 - PC Office Applications

or ART 1145 - Electronic Media in the Arts

Arts/Humanities Elective (2000-level or higher)

COMM 1115 - Interpersonal Communication

COMM 1120 - Mass Communication

Literature Elective (2000-level)

Literature Elective (2000-level)

COMM 2110 - Professional Speech

COMM 3110 - Communication Theory

Communications Elective 4000-level

COMM 4810 - Capstone Seminar I

COMM 4910 - Capstone Seminar II

EXPL - Experiential Learning

Literature Elective (3000-level)

Literature Elective (3000-level)

Writing Elective (3000-level)

Curriculum Elective

Curriculum Elective

Curriculum Elective

Curriculum Elective

Advanced Curricular Elective

Advanced Curricular Elective

Advanced Curricular Elective

Advanced Curricular Elective

**Curriculum Electives:** Students must successfully complete a minimum of 12 credits from the courses listed below. Courses taken as Curriculum Electives may not also be used to satisfy Curricular Requirements above.

ANTH 1110 - Introduction to Cultural Anthropology

ART 1130 - Two-Dimensional Design

ART 1145 - Electronic Media in the Arts (may not be used if taken as technology elective above)

ART 2135 - Fundamentals of Graphic Design

ART 2160 - Fundamentals of Photography

BUSN 2110 - Principles of Management

BUSN 2115 - Marketing

BUSN 2130 - Written Communication

BUSN 2145 - Advertising

BUSN 2160 - Sales

COMM 2145 - Public Relations

COMM 2155 - Introduction to Radio Production

COMM 2160 - Digital Media Production

ENGL 2110 - American Literature I

ENGL 2115 - American Literature II

ENGL 2120 - Western World Literature I

ENGL 2125 - Western World Literature II

ENGL 2145 - Creative Writing

ENGL 2155 - Introduction to Poetry

ENGL 2160 - Introduction to the Novel

ENGL 2165 - Introduction to Dramatic Literature

FILM 1110- Introduction to Cinema

IT 1130 - Web Programming I

IT 1135 - Web Programming II

IT 2110 - Intermediate PC Office Applications

JOUR 1110 - Introduction to Journalism

JOUR 2110 - Feature Writing

LEAD 1110 - Foundations of Leadership

LEAD 2110 - Team Building

MUSC 1110 - Introduction to Music

PHIL 1110 - Introduction to Philosophy I

PHIL 1115 - Introduction to Philosophy II

SPAN 1110 - Elementary Spanish I

SPAN 1115 - Elementary Spanish II

THEA 1120 - Introduction to Theatre

THEA 1125 - Acting I: The Basics of Performance

THEA 2120 - Survey of Technical Theatre

THEA 2125 - Acting II: Techniques and Styles

**Advanced Curricular Electives:** Students must successfully complete a minimum of 12 credits from the courses listed below. Courses taken as Advanced Curriculum Electives may not also be used to satisfy Curricular Requirements above. At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

ART 3135 - Graphic Design II  
ART 3160 - Photography II  
ART 4910 - Advanced Graphic Design/Senior Seminar  
ART 4940 - Advanced Photography/Senior Seminar  
BUSN 3150 - Business/Civil Law  
BUSN 3300 - Business Ethics  
BUSN 4115 - Organizational Behavior  
CJ 3115 - Criminal Evidence and Court Procedures  
COMM 3010-3030 - Special Topics in Communication  
COMM 3115 - Communication Research Skills  
COMM 3120 - Communication Ethics  
COMM 3125 - Advanced Audio Production  
COMM 3130 - Sport Communication  
COMM 3135 - Small Group Communication  
COMM 3510/4510 - Independent Study  
COMM 4010 - Critical Issues in Communication  
COMM 4115 - Gender and Communication  
COMM 4710 - Communication Internship  
ENGL 3010-3014 - Special Topics in Creative Writing  
ENGL 3024-3027 - Advanced Study in Literature  
ENGL 3015 - Great Themes in Literature  
ENGL 3115 - Children's Literature  
ENGL 3120 - Technical Writing  
FILM 3005 - Special Topics in Film  
GEOG 3110 – Cultural Geography  
HRM 3130 - Labor Relations  
HRM 3140 - Training and Development  
HRM 4110 - Organizational Analysis and Change  
IT 3120 - Web for Business and Management  
JOUR 3110 - Broadcast Writing  
JOUR 3115 - Women in Journalism  
JOUR 3120 - Advanced News Writing  
JOUR 3300 - Journalism Ethics  
LEAD 3110 - Profiles in Leadership  
LEAD 3115 - Civic Responsibility  
LEAD 4110 - Leadership Strategies  
LEAD 4910 - Dynamics of Leadership Application  
MUSC 3110 - History of Jazz  
POSC 3110 - Constitutional/Criminal Law  
POSC 3115/HIST 3110 - Civil Rights in America  
PSYC 3115 - Social Psychology  
SOC 3110 - Sociology of Diversity  
SOC 3120 - Social Deviance  
SRM 3135 - Facilitation of Leadership  
THEA 3110 - Directing for the Stage

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

### **Journalism Specialization**

This specialization is designed for those students who are interested in obtaining positions as reporters, copy editors or copy writers, or internal publications writers or editors.

Students are required to take the following courses:

JOUR 1110 - Introduction to Journalism

JOUR 2110 - Feature Writing

JOUR 3120 - Advanced News Writing

JOUR 3300 - Journalism Ethics

Students will choose two courses from the following:

ART 2160 - Fundamentals of Photography

COMM 2160 - Digital Media Production

COMM 3023 - Special Topics: Web Design for Multimedia

JOUR 3115 - Women in Journalism

### **Corporate/Administrative Communication Specialization**

This specialization is designed for students who seek employment in fields of sales/marketing or corporate or nonprofit management and administration.

COMM 2145 - Public Relations

Students will choose two of the following 2000-level courses.

BUSN 2110 - Principles of Management

BUSN 2115 - Marketing

BUSN 2130 - Written Communication

BUSN 2145 - Advertising

BUSN 2160 - Sales

Students will choose three of the following 3000-4000-level courses.

BUSN 3150 - Business/Civil Law

BUSN 4110 - Organizational Behavior

COMM 3135 - Small Group Communications

ENGL 3120 - Technical Writing

### **Photography/Graphic Design Emphases**

Students interested in pursuing an emphasis in photography or graphic design in conjunction with the bachelor of arts: communication arts and humanities will complete 18 credits in the appropriate ART courses identified below.

In addition, students beginning the bachelor of arts: communication arts and humanities curriculum who have not yet completed IT 1115, and who identify photography, graphic design, or photo/graphics as an emphasis,

should take ART 1145 instead of IT 1115 as both a core requirement and part of the 18-credit emphasis. If a student has already completed IT 1115, she/he will complete ART 1145 in addition to IT 1115.

For students wishing to complete an emphasis in **photography**, the following courses are required:

ART 1145 - Electronic Media in the Arts

ART 2160 - Photography I

ART 2163 - Digital Photography

ART 3115 - Digital Projects

or ART 3120 - Book Arts

or ART 3125 - Color Photography

or ART 4942 - Advanced Photo/Senior Seminar II

ART 3160 - Photography II

ART 4941 - Advanced Photography/Senior Seminar I

For students wishing to complete an emphasis in **graphic design**, the following courses are required:

ART 1130 - Two-Dimensional Design

ART 1145 - Electronic Media in the Arts

ART 2135 - Fundamentals of Graphic Design

ART 2163 - Digital Photography

or ART 3115 - Digital Projects

or ART 4911 -Advanced Graphic Design/Senior Seminar I

ART 3130 - Special Topics: Typography

ART 3135 - Graphic Design II

For students wishing to complete an emphasis in **photo/graphics**, the following courses are required:

ART 1130 - Two-Dimensional Design

ART 1145 - Electronic Media in the Arts

ART 2135 - Fundamentals of Graphic Design

ART 2163 - Digital Photography

ART 3115 - Digital Projects

ART 3135 - Graphic Design II

# **Criminal Justice Bachelor of Science**

Curriculum Coordinator: Ray Hayes, M.S., Instructor

The criminal justice curriculum provides students with an understanding of the analysis of problems, procedures, organization, and functions of the criminal justice system. Students will understand how ethical and moral issues within the criminal justice system affect decisions, policy, and personal relationships. The curriculum will provide a thorough understanding of how criminal justice agencies are organized and managed. Students may also have the opportunity to acquire career-based skills through field experiences while working in a criminal justice agency. This program also prepares students for graduate and/or professional studies.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level - Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (3 credits minimum)

FYS 1110 - The First-Year Seminar (1 credits minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (3 credits minimum)

Mathematics/Natural Science Elective - 2000-level (MATH 2115 or MATH 2120 recommended)

Natural Science Laboratory Elective (3 credits minimum)

Social and Behavioral Sciences - Discipline 1 (CJ 1115 recommended)

Social and Behavioral Sciences - 2000-level – Discipline 2 (POSC 2125 recommended)

Technology Elective (3 credits minimum)

## **Institutional Perspectives:**

Diversity Perspective Elective

Environmental Sustainability Perspective Elective

Global Perspective Elective

Self-Directed and Independent Learning Perspective Elective

Service Learning Perspective Elective

Writing Intensive Perspective Elective

## Curriculum Requirements

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

CJ 1115 - Introduction to Criminal Justice

CJ 2110 - Criminology

CJ 2125 - Juvenile Delinquency

CJ 2135 - Policing in America

CJ 2140 - Corrections in America

CJ 4710 - Field Experience II<sup>1</sup>

or Curricular Elective 3000-level or higher<sup>2</sup>

CJ 4910 - Senior Seminar

Curricular Elective<sup>2</sup>

Curricular Elective<sup>2</sup>

Curricular Elective<sup>2</sup>

Curricular Elective<sup>2</sup>

LEAD 4110 - Leadership Strategies

or CJ 4130 - Police Operations and Management

MATH 2115 - Statistics

or MATH 2120 - Statistics for the Social Sciences

MATH 3120 - Statistics and Research

or SOSC 4910 - Research Implementation and Analysis

Minor Elective<sup>3</sup>

Minor Elective<sup>3</sup>

Minor Elective<sup>3</sup>

Minor Elective<sup>3</sup>

Minor Elective<sup>3</sup>

Minor Elective<sup>3</sup>

POSC 2110 - State and Local Government

POSC 3130 - Public Policy

or POSC 3110 - Constitutional/Criminal Law

PSYC 1110 - General Psychology

PSYC 2110 - Developmental Psychology

or PSYC 2205 - Psychology of Adolescence

or PSYC 2210 - Adulthood and Aging

PSYC 3125 - Research Methods for the Social and Behavioral Sciences

**Free Elective Courses:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

The academic adviser assists the student in planning his/her curriculum and in pre-registration, and monitors student progress on a semester by semester basis; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

Not every course is offered every semester at every location. Course offerings are dependent on enrollment.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>Field Experiences are limited to those students with a 2.5 GPA in the major and recommendation of the curriculum coordinator. Students eligible for a field experience must take CJ 4715 (Field Experience Preparation) before taking CJ 4710. Students not eligible for field experience must take a curricular elective at the 3000-level or higher.

<sup>2</sup>One curricular elective can be at the 2000-level while the remainder must be at the 3000-4000 level from the following disciplines: CJ, PSYC, SOCI, POSC, HIST, or GEOG. BUSN 3150 (Business/Civil Law) and SRM 3135 (Facilitation of Leadership Activities) are also considered curricular electives. Courses used as curricular electives may not be used as part of the student's minor.

<sup>3</sup>Students must complete a minor of their choice. Specific minor requirements are found beginning on page 187 of the Catalog. Courses used for the minor may not be used as curricular electives.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

Not every course is offered every semester at every location. Course offerings are dependent on enrollment.

# **Early Childhood Education Bachelor of Science**

Curriculum Coordinator: Carol P. Fontana, M.S., Professor

The Bachelor of Science degree in Early Childhood Education prepares professionals to teach in a variety of Pre-K to fourth grade settings. This early childhood certification program is organized to foster the development of skilled teachers, who can utilize best practices for planning and preparing environments and instructing in early childhood settings. Students engage in fieldwork every semester. A field component consists of weekly observation/participation/teaching supervised by College faculty. Fieldwork requires current FBI, criminal history and child abuse clearances, as well as a current health appraisal including a negative TB test. The field experience fee is \$175 per semester.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate in a certification major. In addition, all education majors require a 3.00 GPA to gain admission to the program and a cumulative 3.00 GPA to continue in the program and a cumulative 3.00 GPA in psychology, early childhood education, special education, art education, social studies, mathematics, and middle level education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **Graduation Requirements:**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found on page 42 of this Catalog and also in the Education Handbook.

In addition, the Early Childhood Education curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education and special education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1115 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (3 credits minimum)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (3 credits minimum)

Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective - 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements**

BIOL 1001 - Newsworthy Topics in Biology  
    or BIOL 1003 - Human Health Issues  
ECE 1110 - Introduction to Early Childhood Education  
ECE 2115 - Curriculum Program Planning (3-8)  
ECE 2160 - Health and Wellness of Young Children  
ECE 3120 - Curriculum and Methods: Mathematics  
ECE 3125 - Curriculum and Methods: Social Studies  
ECE 3130 - Curriculum Methods: Science  
ECE 3135 - Early Literacy Foundations  
ECE 3145 - Teaching Reading Grades 2-4  
EDUC 1710-1735 - Field Observation/Participation  
EDUC 1110 - Introduction to Teaching  
EDUC 2125 - Teaching Literacy through Literature  
EDUC 2130 - Child, Family, and Community  
EDUC 3001 - Formal Acceptance/Teacher Candidate Status  
EDUC 3110 - Curriculum Planning  
EDUC 3155 - Developmental Assessment I  
EDUC 3165 - Developmental Assessment II  
EDUC 3210 - Teaching English Language Learners  
EDUC 3215 - Integrating the Arts for the Developing Child  
EDUC 4160 - Electronic Media for Teachers  
EDUC 4720 - Student Teaching in Early Childhood Education (Pre K-2)  
EDUC 4755 - Student Teaching in Early Childhood Education (Grades 2-4)  
EDUC 4910 - Seminar: Contemporary Research, Issues & Ethics in Education  
ENGL 2110 - American Literature I  
    or ENGL 2115 - American Literature II  
GEOG 3110 - Cultural Geography  
HIST 1130 - U. S. History I  
    or HIST 1135 - U.S. History II  
MATH 1125 - College Algebra or a higher level MATH course

MATH 1140 - College Mathematics or a higher level MATH course  
PSYC 2190 - Child Development I  
PSYC 2195 - Child Development II  
PSYC 3165 - Play, Cognition & Learning  
SPEC 2110 - Characteristics & Needs of Exceptional Learners  
SPEC 2120 - Early Intervention & Transitions  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners  
SPEC 4110 - Family Partnerships, Advocacy, Collaboration and Transitions  
2000-level Science course

**Free Elective Courses:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

The academic adviser assists the student in planning his/her curriculum and in pre-registration, and monitors student progress on a semester by semester basis; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

Not every course is offered every semester at every location. Course offerings are dependent on enrollment.

# **Early Childhood Education/Special Education Bachelor of Science**

Curriculum Coordinator: Karen Arcangelo, Ph.D., Assistant Professor

The Bachelor of Science degree in Early Childhood Education/Special Education prepares professionals to teach in a variety of Pre-K to fourth grade settings. The special education certification prepares professionals to plan instruction and demonstrate effective classroom adaptations in a variety of Pre-K to eighth grade settings. Students engage in fieldwork every semester. A field component consists of weekly observation/participation/teaching supervised by College faculty. Fieldwork requires current FBI, criminal history and child abuse clearances, as well as a current health appraisal including a negative TB test. The field experience fee is \$175 per semester.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate in a certification major. In addition, all education majors require a 3.00 GPA to gain admission to the program and a cumulative 3.00 GPA to continue in the program and a cumulative 3.00 GPA in psychology, early childhood education, special education, art education, social studies, mathematics, and middle level education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42 and also in the Education Handbook.

In addition, the Early Childhood Education/Special Education curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education and special education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1(3 credits minimum)  
Arts and Humanities Elective - Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (3 credits minimum)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)

Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective - 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements**

BIOL 1001 - Newsworthy Topics in Biology  
or BIOL 1003 - Human Health Issues  
ECE 1110 - Introduction to Early Childhood Education  
ECE 2115 - Curriculum and Program Planning (Ages 3-8)  
ECE 2160 - Health and Wellness of Young Children  
ECE 3120 - Curriculum and Methods: Mathematics  
ECE 3125 - Curriculum and Methods: Social Studies  
ECE 3130 - Curriculum and Methods: Science  
ECE 3135 - Early Literacy Foundations  
ECE 3145 - Teaching Reading Grades 2-4  
EDUC 1110 - Introduction to Teaching  
EDUC 1710-1735 - Field Observation/Participation  
EDUC 2125 - Teaching Literacy through Literature  
EDUC 2130 - Child, Family, and Community  
EDUC 3001 - Formal Acceptance/Teacher Candidate Status  
EDUC 3110 - Curriculum Planning  
EDUC 3155 - Developmental Assessment I  
EDUC 3165 - Developmental Assessment II  
EDUC 3210 - Teaching English Language Learners  
EDUC 3215 - Integrating the Arts for the Developing Child  
EDUC 4160 - Electronic Media for Teachers  
EDUC 4710 - Student Teaching in Special Education (Pre K-8)  
EDUC 4720 - Student Teaching in Early Childhood Education (Pre K-2)  
EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
ENGL 2110 - American Literature I  
or ENGL 2115 - American Literature II  
GEOG 3110 - Cultural Geography  
HIST 1130 - U.S. History I  
or HIST 1135 - U.S. History II  
MATH 1125 - College Algebra or a higher level MATH course

MATH 1140 - College Mathematics or a higher level MATH course  
PSYC 2190 - Child Development I  
PSYC 2195 - Child Development II  
PSYC 3165 - Play, Cognition & Learning  
SPEC 2110 - Characteristics & Needs of Exceptional Learners  
SPEC 2115 - Special Education Processes and Procedures  
SPEC 2120 - Early Intervention & Transitions  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners  
SPEC 3120 - Low Incidence Disabilities: Assessment & Instruction  
SPEC 3125 - Evidence Based Effective Instruction: PDD  
SPEC 3130 - Learning Disabilities: Identification & Instruction  
SPEC 4110 - Family Partnerships, Advocacy, Collaboration, and Transitions  
2000-level Science course

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in pre-registration, and monitors student progress on a semester by semester basis; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Environmental Resource Management Bachelor of Science**

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

Environmental resource management is a multidisciplinary science curriculum. Emphasis is placed on preparing students to evaluate and guide environmental actions using sound science. Realistic, hands-on experiences enable students to apply scientific concepts and develop valuable field and laboratory skills. Graduates are working in many areas of environmental management for industries, environmental consulting companies, and regulatory agencies. Students completing all graduation requirements will earn a bachelor of science degree.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (ENVT 2120 recommended)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 2150 recommended)  
Mathematics/Natural Science Elective – 2000-level (BIOL 2120 recommended)  
Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

## **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## Curriculum Requirements

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

BIOL 1010/1070 - Field Biology<sup>1</sup>  
BIOL 1125- General Biology I  
BIOL 1130 - General Biology II  
CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II  
CHEM 2120 - Environmental Chemistry  
ENVT 2110 - GIS/GPS  
ENVT 2120 - Environmental Ethics  
ENVT 2125 - Environmental Policy and Management  
ENVT 3105 - Soil Science  
ENVT 3135 - Hydrology  
ENVT 4110 - Case Study Field Trip  
ENVT 4710 - Environmental Internship Preparation  
ENVT 4715 - Environmental Internship<sup>3</sup>  
ENVT 4910 - Watershed Resource Management  
GEOL 3115 - Structural Geology  
MATH 2115 - Statistics  
MATH 2150 - Calculus I  
PHSC 1145 - Global Change  
PHSC 2110 - Physical Geology  
PHYS 2110 - Physics I  
Curricular Elective<sup>2</sup>  
Curricular Elective<sup>2</sup>  
Curricular Elective<sup>2</sup>  
Curricular Laboratory Elective<sup>2</sup>  
Curricular Laboratory Elective<sup>2</sup>

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

### Footnotes:

<sup>1</sup>Students must successfully complete a minimum of one (1) credit of Field Biology.

<sup>2</sup>Curricular Electives to be chosen from any mathematics (MATH) or science (ENVT, PHSC, BIOL, CHEM, or PHYS) courses at or above the 2000-level.

<sup>3</sup>Students may elect to substitute six credits of curricular electives at the 3000/4000-level for the internship.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Environmental Resource Management: Petroleum and Alternative Energy Concentration Bachelor of Science**

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

This concentration is intended to position graduates to meet employment needs related to the rapidly expanding development of natural gas resources. Through courses in petroleum geology, resource economics, project management, and energy policy and law, students gain the practical skills necessary for employment in a wide variety of jobs in this field. Students completing all graduation requirements will earn a bachelor of science degree.

## **Graduation Requirements**

ENGL 0050 – Critical and Analytical Reading – All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (ENVT 2120 recommended)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 2150 recommended)  
Mathematics/Natural Science Elective – 2000-level (BIOL 2120 recommended)  
Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

## **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## Curriculum Requirements

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

### Curricular Elective<sup>1</sup>

BIOL 1125 - General Biology I  
BIOL 1130 - General Biology II  
BIOL 2120 - Introductory Ecology  
BUSN 2200 - Project Management  
CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II  
CHEM 2120 - Environmental Chemistry  
ENVT 2110 - GIS/GPS  
ENVT 2120 - Environmental Ethics  
ENVT 2125 - Environmental Policy and Management  
ENVT 3105 - Soil Science  
ENVT 3110 - Field Handling of Natural Gas  
ENVT 3125 - Spatial Analysis  
ENVT 3130 - Environmental Law  
ENVT 3135 - Hydrology  
ENVT 4110 - Case Study Field Trip  
ENVT 4710 - Environmental Internship Preparation  
ENVT 4715 - Environmental Internship<sup>2</sup>  
ENVT 4910 - Watershed Resource Management  
GEOL 2110 - Physical Geology  
GEOL 3110 - Petroleum Geology  
GEOL 3115 - Structural Geology  
MATH 2115 - Statistics  
MATH 2150 - Calculus I  
PHSC 1145 - Global Change  
PHYS 2110 - General Physics I

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

### Footnotes:

<sup>1</sup>Curricular electives to be chosen from any mathematics (MATH) or science (ENVT, PHSC, BIOL, CHEM, or PHYS) courses at or above the 2000-level.

<sup>2</sup>Students may elect to take six credits of curricular electives at the 3000/4000-level in place of the internship.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# Geology

## Bachelor of Science

Curriculum Coordinator: Ian Saginor, Ph.D., Assistant Professor

Keystone College's Geology Program seeks to provide students with a broad understanding of fundamental Earth processes including Plate Tectonics, natural resource and mineral formation, weathering and erosion, and climate change. This four-year degree combines classroom instruction with extensive training in laboratory and field skills and is intended to prepare a new generation of geoscience professionals to work in a variety of professional fields. Introductory courses such as Physical Geology and Earth Systems History provide students with a strong foundation in geologic processes, while upper level courses such as Petrology and Structural Geology refine those skills while preparing students for careers in the geosciences.

The Geology curriculum is designed to introduce students to a wide variety of equipment used to study the Earth. Along with classroom instruction and laboratory analysis, the Geology Program stresses fieldwork as a way to enhance students' problem solving skills and prepare them for the real world challenges that face those entering the workforce in the geosciences. Students will participate in numerous local fieldtrips as well as be given the opportunity to study the geology of Costa Rica on a nine-day trip that takes them from active volcanoes to ancient oceanic complexes found on the country's Pacific coast.

### Graduation Requirements

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 43.

### General Education Requirements

Courses fulfilling the General Education Requirements can be found beginning on page 58.

### Competencies:

Arts and Humanities Elective- Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication

ENGL 1110 - College Writing I: Academic Writing

ENGL 1125 - College Writing II: Writing About Literature

Ethics Elective (3 credits minimum; ENVT 2120 - Environmental Ethics Recommended)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (3 credits minimum) (MATH 2150 recommended)

Mathematics/Natural Science Elective (2000-level) (3 credits minimum)

Natural Science Laboratory Elective (3 credits minimum)

Social and Behavioral Sciences - Discipline 1 (3 credits minimum)

Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)

Technology Elective (3 credits minimum)

## **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## **Curriculum Requirements**

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 400 level. When fulfilling these requirements, consult academic advisor regarding career opportunities and minor focus area.

BIOL 1010/1070 - Field Biology (at least one credit)

BIOL 1125 - General Biology I

CHEM 1120 - General Chemistry I

CHEM 1125 - General Chemistry II

CHEM 2120 - Environmental Chemistry

ENVT 2110 - GIS/GPS

ENVT 3105 - Soil Science

ENVT 3135 - Hydrology

ENVT 4110 - Case Study Field Trip

GEOL 3120 - Mineralogy

GEOL 4110 - Igneous and Metamorphic Petrology

GEOL 4115 - Sedimentology and Stratigraphy

GEOL 4810 - Seminar in Research I

GEOL 4910 - Seminar in Research II<sup>2</sup>

MATH 2115 - Statistics

MATH 2150 - Calculus I

PHSC 2110 - Physical Geology

PHSC 2115 - Earth Systems History

PHSC 3115 - Structural Geology

Curricular Elective<sup>1</sup>

Curricular Elective<sup>1</sup>

Curricular Elective<sup>1</sup>

Curricular Laboratory Elective<sup>1</sup>

Curricular Laboratory Elective<sup>1</sup>

## **Footnotes:**

<sup>1</sup>Curricular Electives to be chosen from any mathematics (MATH) or science (ENVT, PHSC, BIOL, CHEM, GEOL, or PHYS) courses at or above the 2000-level.

<sup>2</sup>Students who do not successfully complete GEOL 4910 must take a curricular elective at the 3000/4000-level in its place.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

Free Electives: Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

# Information Technology Bachelor of Science

Curriculum Coordinator: Kasey Chermak, Instructor

The information technology program is designed for individuals interested in professional careers in the field of information technology (IT). The flexibility of the IT program at Keystone College provides students with a comprehensive foundation across the spectrum of the computing environment while developing a specialization in network engineering or business information systems.

The network engineering specialization is designed to prepare graduates for careers in computer networking systems administration, and other areas of computing. The business information systems specialization is designed to prepare graduates for careers in a variety of IT professions including, but not limited to, programmer, solution developer, database administrator, project manager, and systems analyst.

## Graduation Requirements

ENGL 0050 – Critical and Analytical Reading – All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## General Education Requirements

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## Competencies:

Arts and Humanities Elective - Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (IT 3300 recommended)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 1155 recommended)  
Mathematics/Natural Science Elective – 2000-level (MATH 2115 recommended)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (IT 1110 recommended)

## Institutional Perspectives:

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## Curriculum Requirements

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

ACCT 1125 - Managerial Accounting

ACCT 1160 - Survey of Accounting

ACCT 3110 - Accounting Information Systems I

BUSN 2110 - Principles of Management

BUSN 2130 - Written Communication

ENGL 3120 - Technical Writing

Information Technology Elective (chosen from list below)

Information Technology Elective (chosen from list below)

IT 1110 - Introduction to Information Technology

IT 1120 - Introduction to Programming

IT 1130 - Web Programming I

IT 1135 - Web Programming II

IT 2115 - Database Management Systems I

IT 2120 - Database Management Systems II

IT 2165 - Networking I

IT 2170 - Networking II

IT 3125 - Programming with Scripting Languages

IT 3130 - Business Programming I

IT 3135 - Business Programming II

IT 3300 - Information Technology Ethics

IT 4205 - Project Management

IT 4215 - Information Security

IT 4220 - Systems Analysis and Design

IT 4240 - Business Programming III

IT 4245 - Business Programming IV

IT 4910 - Current Topics in Information Technology

MATH 2115 - Statistics

MATH 1155 - Pre-Calculus

or MATH 3115 - Discrete Mathematics

### Information Technology Electives:

ACCT 3120 - Accounting Information Systems II

IT 3115 - Electronic Commerce

IT 3145 - Human Computer Interaction

IT 4255 - Advanced Networking

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Middle Level Education: Language Arts Bachelor of Science**

Curriculum Coordinator: James Gilhooley, Ed.D., Associate Professor

The Bachelor of Science degree in Middle Level education prepares professionals to teach students in grades four through eight. A concentration in Language Arts prepares prospective teachers for certification and the challenging work in developing skills to teach language and literacy. Students engage in fieldwork every semester. A field component consists of weekly observation/participation/teaching supervised by College faculty. Fieldwork requires current FBI, criminal history and child abuse clearances, as well as a current health appraisal including a negative TB test. The field experience fee is \$175 per semester.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate in a certification major. In addition, all education majors require a 3.00 GPA to gain admission to the program and a cumulative 3.00 GPA to continue in the program and a cumulative 3.00 GPA in psychology, early childhood education, special education, art education, social studies, mathematics, and middle level education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **Graduation Requirements:**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42 and also in the Education Handbook.

In addition, the Middle Level Education: Language Arts curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education and special education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110- College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (3 credits minimum)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective - 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level - Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements**

BIOL 1125 - General Biology I  
EDUC 1710-1735 - Field Observation/Participation  
EDUC 1110 - Introduction to Teaching  
EDUC 2125 - Teaching Literacy through Literature  
EDUC 3001 - Formal Acceptance/Teacher Candidate Status  
EDUC 3110 - Curriculum Planning  
EDUC 3115 - Curriculum and Methods: Mathematics  
EDUC 3120 - Curriculum and Methods: Social Studies  
EDUC 3125 - Curriculum and Methods: Science  
EDUC 3140 - Family Health and Safety  
EDUC 3155 - Developmental Assessment I  
EDUC 3165 - Developmental Assessment II  
EDUC 3180 - Foundations of Reading Instruction  
EDUC 3195 - Instructional Strategies for Content Area Reading  
EDUC 3205 - Teaching Reading Grades 4-8  
EDUC 3210 - Teaching English Language Learners  
EDUC 3225 - Teaching Writing in Grades 4-8  
EDUC 4160 - Electronic Meida  
EDUC 4735 - Student Teaching Grades 4-6  
EDUC 4740 - Student Teaching Grades 6-8  
EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
ENGL 2110 - American Literature I  
or ENGL 2115 - American Literature II  
GEOG 3110 - Cultural Geography  
HIST 1130 - US History I  
or HIST 1135 - US History II  
MATH 1125 - College Algebra or a higher level MATH course  
MATH 1135 - Trigonometry or a higher level MATH course  
MATH 1140 - College Mathematics or a higher level MATH course  
MATH 3110 - Communications in Mathematics or a higher level MATH course

PHSC 1120 - Physical Science II  
PHSC 1140 - Energy and the Environment  
or PHSC 1145 - Global Change  
POSC 2110 - State and Local Government  
PSYC 2195 - Child Development II  
PSYC 2205 - Psychology of Adolescence  
PSYC 3165 - Play, Cognition, and Learning  
SPEC 2110 - Characteristics and Needs of Exceptional Learners  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners  
2000-level Science courses

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the students in planning his/her curriculum and in preregistration, and monitors student progress on a semester by semester basis; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Middle Level Education: Social Studies Bachelor of Science**

Curriculum Coordinator: James Gilhooley, Ed.D., Associate Professor

The Bachelor of Science degree in Middle Level education prepares professionals to teach students in grades four through eight. A concentration in social sciences prepares prospective teachers for certification and challenging work in developing skills to teach social studies content. Students engage in fieldwork every semester. A field component consists of weekly observation/participation/teaching supervised by College faculty. Fieldwork requires current FBI, criminal history and child abuse clearances, as well as a current health appraisal including a negative TB test. The field experience fee is \$175.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate in a certification major. In addition, all education majors require a 3.00 GPA to gain admission to the program and a cumulative 3.00 GPA to continue in the program and a cumulative 3.00 GPA in psychology, early childhood education, special education, art education, social studies, mathematics, and middle level education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **Graduation Requirements:**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found on pages 42 and also in the Education Handbook.

In addition, the Middle Level Education: Social Studies curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education and special education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (3 credits minimum)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)

Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective - 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements**

BIOL 1125 - General Biology I  
EDUC 1710-1735 - Field Observation/Participation  
EDUC 1110 - Introduction to Teaching  
EDUC 3001 - Formal Acceptance/Teacher Candidate Status  
EDUC 3110 - Curriculum Planning  
EDUC 3115 - Curriculum and Methods: Mathematics  
EDUC 3120 - Curriculum and Methods: Social Studies  
EDUC 3125 - Curriculum and Methods: Science  
EDUC 3140 - Family Health and Safety  
EDUC 3155 - Developmental Assessment I  
EDUC 3165 - Developmental Assessment II  
EDUC 3180 - Foundations of Reading Instruction  
EDUC 3195 - Instructional Strategies for Content Area Reading  
EDUC 3205 - Teaching Reading in Grades 4-8  
EDUC 3210 - Teaching English Language Learners  
EDUC 4160 - Electronic Media  
EDUC 4730 - Student Teaching at the Intermediate Level  
EDUC 4740 - Student Teaching Grades 6-8  
EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
ENGL 2110 - American Literature I  
or ENGL 2115 - American Literature II  
GEOG 1110 - Introduction to Geography  
GEOG 3110 - Cultural Geography  
HIST 1110 - Making of the Modern World  
HIST 1130 - US. History I  
HIST 1135 - U.S. History II  
HIST 3110 - Civil Rights in America  
MATH 1125 - College Algebra or a higher level MATH course  
MATH 1135 - Trigonometry or a higher level MATH course

MATH 1140 - College Mathematics or a higher level MATH course  
MATH 3110 - Communications in Mathematics or a higher level MATH course  
PHSC 1120 - Physical Science II  
PHSC 1140 - Energy and the Environment  
or PHSC 1145 - Global Change  
POSC 1110 - American National Government  
POSC 2110 - State and Local Government  
PSYC 2195 - Child Development II  
PSYC 2205 - Psychology of Adolescence  
PSYC 3165 - Play, Cognition, and Learning  
SPEC 2110 - Characteristics and Needs of Exceptional Learners  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners  
2000-level Science course

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the students in planning his/her curriculum and in preregistration, and monitors student progress on a semester by semester basis; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Organizational Leadership Bachelor of Science**

Curriculum Coordinators: Janet DeAndrea, Professor  
and Dana Harris, Ph.D., Assistant Professor

The bachelor of science in professional studies: organizational leadership degree program provides a foundation in leadership, interpersonal relationships, diversity, organizational ethics, and communications. The program focuses especially on the development of strong leadership skills. When combined with character development and solid business knowledge, these skills enable graduates to become successful leaders in the ever-changing global workplace and society, poised as forward-thinkers and prepared to positively create and transform organizational cultures.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (LEAD 1110 recommended)  
Arts and Humanities Elective - 2000-level – Discipline 2 (COMM 3135 recommended)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1115 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (3 credits minimum)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 1125 recommended)  
Mathematics/Natural Science Elective – 2000-level (MATH 2115 recommended)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (ECON 2110 or 2115 recommended)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (SOCI 3110 recommended)  
Technology Elective (3 credits minimum)

## **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective

Self-Directed and Independent Learning Perspective Elective

Service Learning Perspective Elective

Writing Intensive Perspective Elective

### **Curriculum Requirements**

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

BUSN 2110 - Principles of Management

BUSN 2130 - Written Communication

BUSN 4115 - Organizational Behavior

BUSN 4710 - Internship

COMM 1115 - Interpersonal Communication

or COMM 2145 - Public Relations

or COMM 3016 - Special Topics: Leadership Communication

COMM 3135 - Small Group Communication

COMM 4115 - Gender and Communication

ECON 2110 - Principles of Economics I

or ECON 2115 - Principles of Economics II

HRM 4110 - Organizational Analysis and Change

LEAD 1110 - Foundations of Leadership

LEAD 2110 - Team Building

LEAD 3110 - Profiles in Leadership

LEAD 3115 - Civic Responsibility

LEAD 4110 - Leadership Strategies

LEAD 4910 - Dynamics of Leadership Application

MATH 2115 - Statistics

PHIL 1110 - Introduction to Philosophy I

or PHIL 1115 - Introduction to Philosophy II

PSYC 1110 - General Psychology

SOCI 3110- Sociology of Diversity

SRM 3135 - Facilitation of Leadership Activities

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

## **Pre-Medical Professional Programs**

Curriculum Coordinator: Joseph Falcone, Ph.D., Associate Professor

Traditionally, students seeking careers in medicine, dentistry, chiropractic, physical therapy, pharmacy, optometry, podiatry, veterinary medicine, and other health-related areas have chosen to major in the biological or natural sciences. However, it is possible to select a major in non-science areas, provided a solid grounding in sciences is achieved. Generally, professional schools define such grounding to be one year each of college inorganic chemistry, organic chemistry, physics, biology, and English. Some schools also require a year of calculus or college mathematics.

The pre-medical professions adviser offers further advice and recommendations on course work over the course of your studies, suggests summer cooperative work and/or internships, and provides information about health professional schools. As a service to Keystone College students, the medical professions adviser maintains a file containing letters of recommendation, evaluations from professors, and other materials necessary for professional school applications.

### **Curriculum**

*Minimum* science requirements should be completed as soon as possible, preferably by the end of junior year so that recommendations can be solicited and application deadlines will be met for fall of the senior year.

The courses required for admission to doctoral level health professions programs include:

One year - Biological Science: BIOL 1125, BIOL 1130

One year - Inorganic Chemistry: CHEM 1120, CHEM 1125

One year - Organic Chemistry: CHEM 2110, CHEM 2115

One year - Physics: PHYS 2110, PHYS 2125

One year - College Mathematics\*: MATH 2115, MATH 2150, MATH 2155

One year - English: two courses at ENGL 2000 level

\*Mathematics requirements differ between schools and fields of study. See your adviser for details.

### **Special Agreements**

There are several special programs available to pre-medical professional students attending Keystone College. Students who follow a prescribed sequence of courses, and maintain good academic standing, may take advantage of one of several articulation agreements with other universities:

King's University, Physician's Assistant Program

Logan College of Chiropractic

New York Chiropractic College

Parker College of Chiropractic

State University of New York Upstate Medical University - Physical Therapy Program

Thomas Jefferson University, Physical Therapy Program\*

Wilkes University, Nesbitt School of Pharmacy

Detailed information on the programs listed above is available from the pre-medical professions adviser.

\*Thomas Jefferson University requires 59 credits in prerequisites and 50 volunteer hours for placement in Doctor of Physical Therapy program (DPT). Students must have completed a baccalaureate degree. Keystone students may opt to major in biology or sport and recreation management/therapeutic recreation concentration.

# **Psychology Bachelor of Arts**

Curriculum Coordinator: Steven Howell, Ph.D., Assistant Professor

The bachelor of arts in psychology program provides students with a foundation in the scientific understanding of human behavior; the skills to consume and apply research; the values congruent with the science and application of psychology; and prepares students to apply these skills in a career in the fields of business, education, health, and human services and/or to pursue graduate studies in preparation for work in the field of psychology

The BA in psychology follows the American Psychological Association's guidelines for an undergraduate degree in psychology and emphasizes a liberal arts education. The degree will prepare students to be generalists who are qualified for entry-level positions in a variety of fields. The degree will also prepare students to pursue advanced education in psychology, counseling, and social work or other disciplines like education, law, or business. Students majoring in psychology will develop the skills that employers value, including oral and written communication skills, cognitive skills, human relations skills, and the ability to understand data.

Students will work closely with an academic adviser, as well as with the Career Development Center, to select courses and/or academic minors that fit their interests and career goals. While the academic adviser assists the student in planning his/her curriculum, the student is ultimately responsible for meeting the requirements of the curriculum selected.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (PSYC 3300 recommended)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (MATH 1140 recommended)

Mathematics/Natural Science Elective - 2000-level (MATH 2115 or MATH 2120 recommended)

Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (SOCI 1110 recommended)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (PSYC 2110 recommended)  
Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements**

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level

MATH 1125 - College Algebra - or a higher level MATH course  
MATH 2115 - Statistics  
    or MATH 2120 - Statistics for the Social and Behavioral Sciences  
PSYC 1110 - General Psychology  
PSYC 2110 - Developmental Psychology  
PSYC 2220 - Physiological Psychology  
PSYC 2225 - Orientation to Psychology Major  
PSYC 2230 - Cognitive Psychology  
    or PSYC 2235 - Learning and Behavior  
PSYC 3110 - Theories of Personality  
    or PSYC 3130 - Psychopathology  
PSYC 3115 - Social Psychology  
PSYC 3125 - Research Methods for the Social and Behavioral Sciences  
PSYC 3300 - Ethics and Issues in Psychology  
PSYC 4715 - Field Experience and Seminar in Psychology  
    or PSYC 4910 - Senior Seminar in Psychology  
SOCI 1110 - Introduction to Sociology  
SOSC 4910 - Research Analysis  
Curricular Elective\*  
Curricular Elective\*  
Curricular Elective\*  
Curricular Elective\*

**\*Curricular Electives:** Students must successfully complete a minimum of 12 credits (not taken as curriculum courses above) from the courses listed below.

PSYC 2190 - Child Development I  
PSYC 2195- Child Development II  
PSYC 2205 - Psychology of Adolescence  
PSYC 2210- Adult Development and Aging

PSYC 2215 - Drugs and Behavior  
PSYC 3110 - Theories of Personality  
PSYC 3130 - Psychopathology  
PSYC 3140 - Psychological Tests and Measurements  
PSYC 3145 - Forensic Psychology  
PSYC 3155 - Evolutionary Psychology  
PSYC 3160 - Psychology of Film  
PSYC 3165 - Play, Cognition, and Learning  
PSYC 3170 - Health Psychology  
PSYC 3175 - Clinical and Counseling Theories  
PSYC 3515 - Psychology Teaching Assistant  
PSYC 4715 - Field Experience and Seminar in Psychology  
PSYC 4910 - Senior Seminar in Psychology

**Specialization in Art Therapy:**

ARTH 3005 - Experiencing the Arts  
ARTH 3085 - Introduction to Art Therapy  
ARTH 4085 - Art Therapy Fieldwork (3 credits)  
PSYC 1110 - General Psychology  
PSYC 2110 - Developmental Psychology  
PSYC 3130 - Psychopathology

**Concentration in Child Psychology:**

PSYC 1110 - General Psychology  
PSYC 2190 - Child Development I (ages 0-6)  
PSYC 2195 - Child Development II (ages 5-13)  
PSYC 2205 - Psychology of Adolescence  
PSYC 3165 - Play, Cognition, and Learning  
SPED 2110 - Characteristics and Needs of Exceptional Learners

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Recommended Sequence of Courses:** See [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Public Health Bachelor of Science**

Curriculum Coordinator: Vicki Stanavitch, M.S., Instructor

The flexibility of the public health major curriculum will allow the students to incorporate many different aspects of a liberal arts education. The goal of this program is to provide students with a solid background in useful tools that they can use in their careers in general public health as well as the various specialization areas of Public Health (e.g., environmental health, public policy and administration, infectious disease epidemiology, health education, pre-medical, and biostatistics). Students with an undergraduate degree in Public Health could also work in business, health education, health services administration, or law. This rigorous program provides a pathway to medical school and will prepare students for graduate studies in fields related to the health sciences and human services.

There is sufficient flexibility to allow students to minor in one of several disciplines. Non-public health majors may minor in Public Health (see page 187) A Public Health minor may be useful for any student working in a field related to healthcare such as psychology, information technology, communication, homeland security, mathematics, leadership, sociology, or business.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies**

Arts and Humanities Elective- Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (3 credits minimum; BIOL 2145 recommended)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum; BIOL 2002 recommended)

Mathematics Elective (MATH 2150 recommended)

Mathematics/Natural Science Elective (2000 level; MATH 2115, 3120, or 3160 recommended)

Natural Science Laboratory Elective (BIOL 1125 recommended)

Social and Behavioral Sciences - Discipline 1 (3 credits minimum; PSYC 1110 or 2110 recommended)

Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum; ECON 2110 recommended)

Technology Elective (3 credits minimum; ENVT 2110 recommended)

## **Institutional Perspectives**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## **Curriculum Requirements**

At least 36 of the 120 credits required for the bachelor's degree must be at the 300-and/or 400 level. When fulfilling these requirements, consult academic advisor regarding career opportunities and minor focus area.

BIOL 1125 - General Biology I

BIOL 2145 - Bioethics

BIOL 4810 - Seminar and Research

BIOL 4910 - Capstone<sup>1</sup>

ECON 2110 - Principles of Economics I

ECON 2111 - Principles of Economics II

ENVT 2110 - GIS/GPS

MATH 2115 - Statistics

MATH 3120 - Statistics and Research

or MATH 3160 - Statistics for the Sciences

PBHL 1110 - Public Health

PBHL 1115 - History of Public Health

PBHL 2110 - Epidemiology

PBHL 2120 - Community Health

PBHL 2115 - Public Health Biology

PBHL 3110 - Global Health

PBHL 3115 - Environmental Health

PBHL 3125 - Health Communication

PBHL 3120 - Public Health Education

PBHL 4710 - Internship Prep

PBHL 4715 - Internship

POSC 3130 - Public Policy

Curricular Elective - To be chosen from the Public Health Electives below

Curricular Elective - To be chosen from the Public Health Electives below

Curricular Elective - To be chosen from the Public Health Electives below

Curricular Elective - To be chosen from the Public Health Electives below

Curricular Elective - To be chosen from the Public Health Electives below

Curricular Elective - To be chosen from the Public Health Electives below

Curricular Elective - To be chosen from the Public Health Electives below

Curricular Elective - 3000 level - To be chosen from the Public Health Electives below

Curricular Elective - 3000 level - To be chosen from the Public Health Electives below

Curricular Elective - 3000 level - To be chosen from the Public Health Electives below

## **Public Health Electives**

BIOL 1110 - Human Anatomy and Physiology I  
BIOL 1115 - Human Anatomy and Physiology II  
BIOL 1130 - Botany  
BIOL 2002 - Nutrition  
BUSN 2130 - Written Communication  
BUSN 4115 - Organizational Behavior  
CHEM 1120 - General Chemistry I  
CHEM 1115 - General Chemistry II  
CHEM 2110 - Organic Chemistry I  
CHEM 2115 - Organic Chemistry II  
ENVT 2110 - GIS/GPS  
ENVT 2115 - GIS Applications  
LEAD 1110 - Foundations of Leadership  
PHYS 2110 - General Physics I  
PHYS 2125 - General Physics II  
POSC 1110 - American National Government  
POSC 2110 - State and Local Government  
POSC 3115 - Civil Rights in America  
PBHL 3010 - Maternal and Child Health

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

## **Footnotes:**

<sup>1</sup>Students who do not complete BIOL 4910 must take a curricular elective at the 3000-level or higher.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Social Science Bachelor of Science**

Curriculum Coordinator: Kerry Roe, M.A., Assistant Professor

The bachelor of science in professional studies: social science degree is designed to offer students a broad foundation in the social sciences while allowing them to concentrate in the disciplines of psychology, sociology, criminal justice, or political science. The major offers students a strong liberal arts education and helps to develop critical thinking, writing, and oral presentation skills that are necessary for graduate study or workforce entry.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (3 credits minimum)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (3 credits minimum)

Mathematics/Natural Science Elective - 2000-level (MATH 2115 or MATH 2120 recommended) (3 credits minimum)

Natural Science Laboratory Elective (3 credits minimum)

Social and Behavioral Sciences - Discipline 1 (3 credits minimum)

Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)

Technology Elective (3 credits minimum)

## **Institutional Perspectives:**

Diversity Perspective Elective

Environmental Sustainability Perspective Elective

Global Perspective Elective

Self-Directed and Independent Learning Perspective Elective

Service Learning Perspective Elective

Writing Intensive Perspective Elective

## Curriculum Requirements

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

Social Science Foundation Sequence #1\*<sup>1</sup>

Social Science Foundation Sequence #2\*

Social Science Foundation Sequence #3\*

Social Science Foundation Sequence #4\*

Social Science Foundation Sequence #5\*

Social Science Foundation Elective

Social Science Foundation Elective

Curricular Elective (chosen from list below)

Curricular Elective 3000-level or higher (chosen from list below)

Curricular Elective 3000-level or higher (chosen from list below)

Curricular Elective 3000-level or higher (chosen from list below)

Curricular Elective 3000-level or higher (chosen from list below)

Curricular Elective 3000-level or higher (chosen from list below)

MATH 2115 - Statistics

or MATH 2120 - Statistics for the Social Sciences

PSYC 3125 - Research Methods for the Social and Behavioral Sciences

SOSC 4710 - Social Science Field Experience

or Curricular Elective 3000-level

SOSC 4910 - Research Implementation and Analysis

or MATH 3120 - Statistics and Research

### \*Social Science Sequence and Electives

Social Science Foundation Sequences and Electives are to be chosen from the list below. A total of five (5) sequences must be completed and an additional two (2) elective courses. Each sequence consists of two (2) courses:

ANTH 1110 - Introduction to Cultural Anthropology

and ANTH 2110 - Peoples and Cultures of Africa

or ANTH 2115 - Peoples and Cultures of the Middle East

or ANTH 2120 - Peoples and Cultures of Asia

or ANTH/BIOL 2130 - Biological Anthropology

or GEOG 3110 - Cultural Geography

CJ 1115 - Introduction to Criminal Justice

and CJ - Any 2000-level Criminal Justice course

ECON 2110 - Principles of Economics I

and ECON 2115 - Principles of Economics II

GEOG 1110 - Introduction to Geography

and GEOG 3110 - Cultural Geography

HIST 1110 - The Making of the Modern World

and HIST 1115 - Western Civilization

HIST 1130 - U.S. History I

and HIST 1135 - U.S. History II

POSC 1110 - American National Government

and POSC 2110 - State and Local Government

or POSC 2130 - International Relations  
or POSC 3110 - Constitutional/Criminal Law  
or POSC 3120 - Comparative Government  
PSYC 1110 - General Psychology  
and PSYC 2110 - Developmental Psychology  
or PSYC 2115 - Child Psychology  
or PSYC 2205 - Psychology of Adolescence  
or PSYC 2210 - Adulthood and Aging  
SOC 1110 - Introduction to Sociology  
and SOC 2120 - Social Problems  
or SOC 2125 - The Family  
or SOC 3110 - Sociology of Diversity

### **Curricular Electives:**

Students must choose 18 credits of curricular electives not used above, 15 of which must be at the 3000 level or higher. Twelve of the curricular elective credits must complete the minor requirements in one of the following areas: political science, sociology, psychology, or criminal justice. Courses used as Social Science Foundation sequence courses above or as General Education Requirements may not be used as curricular electives.

ANTH 2110 - Peoples and Cultures of Africa  
BUSN 3300- Business Ethics  
BUSN 3150 - Business/Civil Law  
BUSN 4110 - Organizational Behavior  
COMM 3115 - Communication Research Skills  
COMM 3120 - Communication Ethics  
COMM 4115 - Gender and Communication  
CJ 2000 or higher - All CJ courses numbered 2000- or higher  
ECON 2110 - Principles of Economics I  
ECON 2115 - Principles of Economics II  
GEOG 1110 - Introduction to Geography  
GEOG 3110 - Cultural Geography  
HIST 3110/POSC 3115 - Civil Rights in America  
HIST 3115/POSC 3125 - U.S. History Since 1945  
HIST 3120 - History of the Civil War  
HSER 2115 - The Helping Relationship  
HSER 2120 - Human Services Systems  
LEAD 4110 - Leadership Strategies  
POSC - All Political Science courses  
PSYC - All Psychology courses  
SOC - All Sociology courses  
SRM 3135 - Facilitation of Leadership Activities

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Footnotes:**

<sup>1</sup>Social Science Sequence #1 must be a History Sequence.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Sport and Recreation Management Bachelor of Science**

Curriculum Coordinator: Terry Wise, M. Ed., Associate Professor

The bachelor of science - sport and recreation management curriculum has a strong business base and prepares students for career opportunities in athletics, recreation programs, sport journalism and promotions, resort recreation, commercial fitness, or for a business of their own. Students meeting the requirements of the curriculum will receive a bachelor of science degree in sport and recreation management.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level – Discipline 2 (COMM 3130 recommended)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (SRM 3300 recommended)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective – 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (SRM 2120 recommended)  
Technology Elective (IT 1115 or higher recommended)

## **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

## **Curriculum Requirements**

At least 36 of the 120 credits required for the bachelor's degree must be at the 3000-and/or 4000 level.

ACCT 1125 - Managerial Accounting or higher ACCT course

BUSN 2110 - Principles of Management

BUSN 2130 - Written Communication

BUSN 4115 - Organizational Behavior  
or LEAD 4110 - Leadership Strategies

COMM 3130 - Sport Communication

IT 1115 - PC Office Applications or higher IT course

PHED 1125 - First Aid and Safety

SRM 1110 - Introduction to Sport and Recreation Management

SRM 2110 - Program Development and Planning

SRM 2115 - Facilities Management

SRM 2120 - Social and Ethical Issues of Sport

SRM 2125 - Economics of Sport and Recreation

SRM 3115 - Legal Issues in Sport and Recreation

SRM 3120 - Sport Promotion and Marketing

SRM 3300 - Ethics in Sport and Recreation

SRM 4135 - Sport Business Practices

SRM 4710 - Field Experience Preparation

SRM 4720 - SRM Internship I

SRM 4725 - SRM Internship II

SRM 4910 - Senior Seminar

Track Elective

Track Elective

Track Elective

Track Electives to be chosen from the choices below. Students are required to successfully complete all courses in their chosen track.

### **Educational Administration:**

SRM 3125 - Principles of Coaching

SRM 3145 - Applied Learning Theories for Movement and Play

SRM 4110 - Governance of Sports and Athletics

### **Sport Tourism and Event Management:**

SRM 3130 - Sport Tourism

SRM 3140 - Commercial Recreation

SRM 4120 - Resort Recreation

### **Leisure and Commercial Recreation Management:**

SRM 3135 - Facilitation of Leadership

SRM 3150 - Outdoor Recreation

SRM 4130 - Municipal and Non-Profit Leisure Services

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits for graduation.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Teaching - Art Education K-12 Bachelor of Science**

Curriculum Coordinator: David W. Porter, M.A., Professor

The Bachelor of Science degree in Teaching: Art Education prepares professionals to teach students in kindergarten through twelfth grade. A concentration in art prepares prospective teachers for certification and challenging work in developing skills to teach creative visual expression. Students engage in fieldwork every semester. A field component consists of weekly observation/participation/teaching supervised by College faculty. Fieldwork requires current FBI, criminal history and child abuse clearances, as well as a current health appraisal including a negative TB test. The field experience fee is \$175 per semester.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate in a certification major. In addition, all education majors require a 3.00 GPA to gain admission to the program and a cumulative 3.00 GPA to continue in the program and a cumulative 3.00 GPA in psychology, early childhood education, special education, art education, social studies, mathematics, and middle level education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found on beginning on page 42 and also in the Education Handbook.

In addition, the Teaching: Art Education curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education and special education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (3 credits minimum)

FYS 1110 - The First-Year Seminar (2 credits minimum)

Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective - 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements:**

ARHI 1001 - Art History Survey I  
ARHI 1002 - Art History Survey II  
ARHI 3001 - Modern and Post-Modern Art  
ART 1110 - Color Theory  
ART 1120 - Drawing and Composition I  
ART 1125 - Figure Drawing I  
ART 1130 - Two-Dimensional Design  
ART 1135 - Three-Dimensional Design  
ART 1145 - Electronic Media in the Arts  
ART 2145 - Fundamentals of Ceramics  
ART 2175 - Fundamentals of Sculpture  
ART 2185 - Fundamentals of Painting  
ART 4810 - Professional Practices (Exhibit, Employment, and Ethics)  
Fundamental Art Studio<sup>1</sup>  
Intermediate Art Studio in Concentration Area<sup>1</sup>  
Advanced Art Studio/Senior Seminar in Concentration Area<sup>1</sup>  
Advanced Art Studio/Senior Seminar in Concentration Area<sup>1</sup>  
Biology Laboratory Elective  
EDUC 1110 - Introduction to Teaching  
EDUC 1710-1740 - Field Observation/Participation  
EDUC 2135 - Teaching in the Secondary School  
EDUC 3001 - Formal Acceptance/Teacher Candidate Status  
EDUC 3140 - Family Health and Safety  
EDUC 3150 - Art Education Media and Methods/Elementary Methods  
EDUC 3165 - Developmental Assessment II  
EDUC 3210 - Teaching English Language Learners  
EDUC 4160 - Electronic Media for Teachers  
EDUC 4165 - Art Education Media and Methods/Secondary Methods  
EDUC 4730 - Student Teaching Intermediate Level

EDUC 4745 - Student Teaching Secondary Level  
EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
ENGL 2110 - American Literature I  
or ENGL 2115 - American Literature II  
HIST 1130 - U. S. History I  
or HIST 1135 - U. S. History II  
MATH 1125 - College Algebra or a higher level MATH course  
MATH 1140 - College Mathematics or a higher level MATH course  
PHSC 1140 - Energy and the Environment  
or PHSC 1145 - Global Change  
or BIOL 1120 - Environmental Science  
PSYC 2195 - Child Development II  
PSYC 2205 - Psychology of Adolescence  
SPEC 2110 - Characteristics and Needs of Exceptional Learners  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners  
Science Elective - 2000-level<sup>2</sup>

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Footnotes:**

<sup>1</sup>Intermediate and advanced studio courses are determined by choice of studio art concentration and fundamental art studio pre-requisite. Course selection must be approved by Keystone College Division of Fine Arts academic adviser.

<sup>2</sup>This course must be a 2000-level science course. See General Education course electives on page 61 for choices.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the students in planning his/her curriculum and in pre-registration, and monitors student progress on a semester by semester basis; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

## **Teaching: Child and Family Studies (non-certification program)**

Curriculum Coordinator: Heather Shanks-McElroy, B.Ed., M.S.W., Ph.D., Associate Professor

The bachelor's degree in Teaching: Child and Family Studies is a non-certification program designed to prepare professionals who are skilled in working with children and families in educational and non-educational settings. The degree provides students with the foundation of a social sciences background, combined with the theoretical context for understanding the theories and process of education. Students engage in fieldwork every semester. A field component consists of weekly observation/participation/teaching (student teaching not required) supervised by College faculty. Fieldwork requires current FBI, criminal history and child abuse clearances, as well as a current health appraisal including a negative TB test. The field experience fee is \$175 per semester.

### **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below to graduate from this curriculum.

### **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

### **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)  
Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (3 credits minimum)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective – 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective

Service Learning Perspective Elective

Writing Intensive Perspective Elective

## **Curriculum Requirements**

At least 36 of the 120 credits required for the bachelor's degree must be 3000- and/or 4000-level courses.

BIOL 1001 - Newsworthy Topics in Biology

ECE 1110 - Introduction to Early Childhood Education

ECE 2160 - Health and Wellness of Young Children

EDUC 1710-1760 - Field Observation/Participation

EDUC 1110 - Introduction to Teaching

EDUC 2125 - Teaching Literacy Through Literature

EDUC 2130 - Child, Family, and Community

EDUC 3155 - Developmental Assessment I

EDUC 3165 - Developmental Assessment II

EDUC 3210 - Teaching English Language Learners

EDUC 4160 - Electronic Media for Teachers

EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education

ENGL 2110 - American Literature I

or ENGL 2115 - American Literature II

GEOG 3110 - Cultural Geography

HIST 1130 - U. S. History I

or HIST 1135 - U. S. History II

HSER 2115 - The Helping Relationship

HSER 2120 - Human Service Systems

HSER 4710 - Field Experience

MATH 1125 - College Algebra

MATH 1140 - College Mathematics

MATH 2115 - Statistics

PSYC 2190 - Child Development I

PSYC 2195 - Child Development II

PSYC 2205 - Psychology of Adolescence

PSYC 3125 - Research Methods for the Social and Behavioral Sciences

PSYC 3130 - Psychopathology

PSYC 3165 - Play, Cognition, and Learning

SPEC 2110 - Characteristics and Needs of Exceptional Learners

SPEC 2120 - Early Intervention and Transitions

SPEC 3110 - Classroom Management

SPEC 3115 - Differentiated Instruction for Diverse Learners

SPEC 4110 - Family Partnerships, Advocacy, Collaboration and Transitions

Concentration Elective (chosen from list below)

2000-level Science course

**Education Concentration:**

ARTH 3005 - Experiencing the Arts  
ARTH 3085 - Introduction to Art Therapy  
BUSN 4115 - Organizational Behavior  
COMM 1115 - Interpersonal Communication  
COMM 1120 - Mass Communication  
COMM 3135 - Small Group Communication  
ECE 2010 - Special Topics in Early Childhood Education  
ECE 2110 - Curriculum and Program Planning (Ages 0-3)  
ECE 2115 - Curriculum and Program Planning (Ages 3-8)  
ECE 2180 - Early Childhood Education Seminar  
ECE 3150 - Administration and Supervision in Schools for Young Children  
EDUC 3215 - Integrating the Arts  
EDUC 4120 - Creating Education Materials  
LEAD 4110 - Leadership Strategies  
MUSC 1110 - Introduction to Music  
PHSC 1140 - Energy and the Environment  
PHSC 1145 - Global Change  
PSYC 2110 - Developmental Psychology  
PSYC 2120 - Adolescence and Adulthood  
PSYC 2205 - Psychology of Adolescence  
PSYC 2235 - Learning and Behavior  
PSYC 3135 - Psychology of Disability  
PSYC 3150 - Psychology of Trauma  
RELG 2110 - Survey of Religions  
SOCI 2120 - Social Problems  
SOCI 2125 - Sociology of the Family  
SOCI 3120 - Social Deviance  
SPAN 1110 - Elementary Spanish I  
SPAN 1115 - Elementary Spanish II  
SPAN 2110 - Intermediate Spanish I  
SPAN 2115 - Intermediate Spanish II  
SPEC 2115 - Special Education Processes and Procedures  
SRM 3125 - Principles of Coaching  
SRM 3135 - Facilitation of Leadership Activities  
THEA 1125 - Acting I  
THEA 2125 - Acting II

**Human Services Concentration:**

ANTH 1110 - Introduction to Cultural Anthropology  
ANTH 2110 - People and Cultures of Africa  
ANTH 2115 - People and Cultures of the Middle East  
ANTH 2120 - People and Cultures of Asia  
ARTH 3085 - Introduction to Art Therapy  
BIOL 2001 - Biological Dimensions of Human Sexuality

BUSN 4115 - Organizational Behavior  
COMM 1115 - Interpersonal Communication  
COMM 1120 - Mass Communication  
COMM 3135 - Small Group Communication  
CJ 1115 - Introduction to Criminal Justice  
CJ 2110 - Criminology  
CJ 2125 - Juvenile Delinquency  
CJ 3115 - Criminal Evidence and Court Procedures  
CJ 3135 - Juvenile Justice System  
LEAD 4110 - Leadership Strategies  
MUSC 1110 - Introduction to Music  
POSC 1110 - American National Government  
POSC 2110 - State and Local Government  
POSC 3115/HIST 3110 - Civil Rights in America  
PSYC 2110 - Developmental Psychology  
PSYC 2120 - Adolescence and Adulthood  
PSYC 2215 - Drugs and Behavior  
PSYC 3115 - Social Psychology  
PSYC 3135 - Psychology of Disability  
PSYC 3145 - Forensic Psychology  
PSYC 3150 - Psychology of Trauma  
RELG 2110 - Survey of Religions  
SOC 2120 - Social Problems  
SOC 2125 - Sociology of the Family  
SOC 3120 - Social Deviance  
SOSC 4910 - Research Implementation and Analysis  
SPAN 1110 - Elementary Spanish I  
SPAN 1115 - Elementary Spanish II  
SPAN 2110 - Intermediate Spanish I  
SPAN 2115 - Intermediate Spanish II  
SRM 2120 - Social and Ethical Issues of Sport  
SRM 3135 - Facilitation of Leadership Activities  
THEA 1125 - Acting I  
THEA 2125 - Acting II

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

## **Teaching: Dual Social Studies/Special Education (7<sup>th</sup> through 12<sup>th</sup> grade) Bachelor of Science**

**Approval from Pennsylvania Department of Education anticipated September, 2013**  
Curriculum Coordinator: Karen Arcangelo, Ph.D., Assistant Professor

The Bachelor of Science degree in Teaching: Dual 7-12 Social Studies/Special Education prepares professionals to teach students in grades seven through twelve. A concentration in social sciences focusing on diverse cultural and pedagogical issues prepares prospective teachers for certification. The special education certification prepares professionals to plan instruction and demonstrate effective classroom adaptations in grades 7 through 12. A field component consists of weekly observation/ participation/teaching supervised by College faculty. Fieldwork requires current FBI, criminal history and child abuse clearances, as well as a current health appraisal including a negative TB test. The field experience fee is \$175 per semester.

The Dual 7-12 Social Studies/Special Education curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education, special education, art, social studies, mathematics, and middle level education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

### **Graduation Requirements**

ENGL 0500 – Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found on pages 42 and also in the Education Handbook.

In addition, the Dual-7-12 Social Studies/Special Education curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education, special education, art, social studies, mathematics, and middle level education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

### **General Education Requirements**

Courses fulfilling the General Education Requirements can be found on pages 58.

### **Competencies:**

Arts and Humanities Elective - Discipline 1(3 credits minimum)  
Arts and Humanities Elective - Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing about Literature (3 credits)  
Ethics Elective (3 credits minimum)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)

Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective - 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements**

ANTH 1110 - Introduction to Cultural Anthropology  
BIOL 1001 - Newsworthy Topics in Biology  
ECON 2110 - Principles of Economics I  
ECON 2115 - Principles of Economics II  
EDUC 1710-1757 - Field Observation/Participation  
EDUC 1110 - Introduction to Teaching  
EDUC 2135 - Teaching in the Secondary Schools  
EDUC 3001 - Formal Acceptance/Teacher Candidate Status  
EDUC 3140 - Family, Health and Safety  
EDUC 3165 - Developmental Assessment II  
EDUC 3175 - Secondary Methods/Social Studies  
EDUC 3210 - Teaching English Language Learners  
EDUC 4160 - Electronic Media for Teachers  
EDUC 4710 - Student Teaching: Special Education (Pre K-8)  
EDUC 4745 - Student Teaching Secondary Level  
EDUC 4910 - Seminar: contemporary Research, Issues, and Ethics in Education  
ENGL 2110 - American Literature I  
    or ENGL 2115 - American Literature II  
GEOG 1110 - Introduction to Geography  
HIST 1110 - The Making of the Modern World  
HIST 1115 - Western Civilization  
HIST 1130 - U.S. History I  
HIST 1135 - US History II  
HIST 3110 - Civil Rights in America  
MATH 1125 - College Algebra or a higher level MATH course  
MATH 1140 - College Mathematics or a higher level MATH course  
POSC 1110 - American Government  
POSC 2110 - State and Local Government  
PSYC 1110 - General Psychology  
PSYC 2205 - Psychology of Adolescence  
SOC 1110 - Introduction to Sociology  
SPEC 2110 - Characteristics & Needs of Exceptional Learners  
SPEC 2115 - Special Education Processes and Procedures

SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners  
SPEC 3120 - Low Incidence Disabilities: Assessment & Instruction  
SPEC 3125 - Evidence Based Effective Instruction: PDD  
SPEC 3130 - Learning Disabilities: Identification & Instruction  
SPEC 3140 - Transition Planning  
SPEC 4110 - Family Partnerships, Advocacy & Collaboration

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 132 credits earned for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in pre-registration, and monitors student progress on a semester by semester basis; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Teaching: Mathematics Education (7<sup>th</sup> through 12<sup>th</sup> grade) Bachelor of Science**

Curriculum Coordinator: Patricia Bederman Miller, Ph.D., Professor

The Bachelor of Science degree in Teaching: Mathematics Education prepares professionals to teach students in grades seven through twelve. A concentration in mathematics prepares prospective teachers for certification and challenging work in developing skills to teach mathematics. Students engage in fieldwork every semester. A field component consists of weekly observation/participation/teaching supervised by College faculty. Fieldwork requires current FBI, criminal history and child abuse clearances, as well as a current health appraisal including a negative TB test. The field experience fee is \$175 per semester.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate in a certification major. In addition, all education majors require a 3.00 GPA to gain admission to the program and a cumulative 3.00 GPA to continue in the program and a cumulative 3.00 GPA in psychology, early childhood education, special education, art education, social studies, mathematics, and middle level education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42 and also in the Education Handbook.

In addition, the Mathematics Education curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education and special education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (3 credits minimum)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective - 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level - Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements**

Biology Lab Elective<sup>1</sup>  
EDUC 1710-1760 - Field Observation/Participation  
EDUC 1110 - Introduction to Teaching  
EDUC 2135 - Teaching in the Secondary School  
EDUC 3001 - Formal Acceptance/Teacher Candidate Status  
EDUC 3140 - Family Health and Safety  
EDUC 3165 - Developmental Assessment II  
EDUC 3200 - Mathematics Education and Methods/Secondary  
EDUC 3210 - Teaching English Language Learners  
EDUC 4160 - Electronic Media  
EDUC 4730 - Student Teaching at the Intermediate Level  
EDUC 4745 - Student Teaching at the Secondary Level  
EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
ENGL 2110 - American Literature I  
    or ENGL 2115 – American Literature II  
GEOG 3110 - Cultural Geography  
HIST 1130 - U. S. History I  
    or HIST 1135 - U. S. History II  
MATH 1125 - College Algebra or a higher level MATH course  
MATH 1140 - College Mathematics  
MATH 2110 - Mathematics throughout History  
MATH 2115 - Statistics  
    or MATH 3155 - Probability  
MATH 2150 - Calculus I  
MATH 2155 - Calculus II  
MATH 3110 - Communications in Mathematics  
MATH 3113 - Linear Algebra  
MATH 3115 - Discrete Mathematics  
MATH 3120 - Statistics and Research  
MATH 3125 - Modern Geometry

MATH 3135 - Abstract Algebra  
MATH 3140 - Calculus III  
Mathematics Elective (chosen from list below)  
Mathematics Elective (chosen from list below)  
PHSC 1140 - Energy and the Environment  
or PHSC 1145 - Global Change  
or BIOL 1120 - Environmental Science  
PHYS 2110 - General Physics I  
or PHYS 2125 - General Physics II  
PSYC 2195 - Child Development II  
PSYC 2205 - Psychology of Adolescence  
SPEC 2110 - Characteristics and Needs of Exceptional Learners  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners  
2000-level Science course

**Mathematics Electives (not used as curriculum courses above):**

MATH 1135 - Trigonometry  
MATH 1155 - Pre-Calculus  
MATH 3145 - Differential Equations  
MATH 3150 - Number Theory

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Footnotes:**

<sup>1</sup>To be chosen from: BIOL 1001, 1003, 1110, 1115, 1125, or 1130. Other courses require advisor approval.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the students in planning his/her curriculum and in preregistration, and monitors student progress on a semester by semester basis; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Teaching: Social Studies Education (7<sup>th</sup> through 12<sup>th</sup> grade) Bachelor of Science**

Curriculum Coordinator: Janet Wrightnour, M.S., Associate Professor

The Bachelor of Science degree in Teaching: Social Studies Education prepares professionals to teach students in grades seven through twelve. A concentration in social sciences focusing on diverse cultural and pedagogical issues prepares prospective teachers for certification and challenging work in developing skills to teach social studies. Students engage in fieldwork every semester. A field component consists of weekly observation/participation/teaching supervised by College faculty. Fieldwork requires current FBI, criminal history and child abuse clearances, as well as a current health appraisal including a negative TB test. The field experience fee is \$175.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate in a certification major. In addition, all education majors require a 3.00 GPA to gain admission to the program and a cumulative 3.00 GPA to continue in the program and a cumulative 3.00 GPA in psychology, early childhood education, special education, art education, social studies, mathematics, and middle level education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42 and also in the Education Handbook.

In addition, the Social Studies Education curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education and special education. Students must obtain a “C” or better in the content courses in the major. Students earning lower than a “C” must retake the course.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

### **Competencies:**

Arts and Humanities Elective - Discipline 1 (3 credits minimum)

Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

Ethics Elective (3 credits minimum)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective - 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

### **Curriculum Requirements**

ANTH 1110 - Introduction to Cultural Anthropology  
Biology Laboratory Elective<sup>1</sup>  
ECON 2110 - Principles of Economics I  
ECON 2115 - Principles of Economics II  
EDUC 1710-1760 - Field Observation/Participation  
EDUC 1110 - Introduction to Teaching  
EDUC 2135 - Teaching in the Secondary School  
EDUC 3001 - Formal Acceptance/Teacher Candidate Status  
EDUC 3140 - Family Health and Safety  
EDUC 3165 - Developmental Assessment II  
EDUC 3175 - Secondary Methods – Social Studies  
EDUC 3195 - Instructional Strategies for Content Area Reading  
EDUC 3210 - Teaching English Language Learners  
EDUC 4160 - Electronic Media  
EDUC 4730 - Student Teaching at the Intermediate Level  
EDUC 4745 - Student Teaching at the Secondary Level  
EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
ENGL 2110 - American Literature I  
or ENGL 2115 - American Literature II  
GEOG 1110 - Introduction to Geography  
GEOG 3110 - Cultural Geography  
HIST 1110 - Making of the Modern World  
HIST 1115 - Western Civilization  
HIST 1130 - U. S. History I  
HIST 1135 - U. S. History II  
HIST 3110 - Civil Rights in America  
MATH 1125 - College Algebra or a higher level MATH course  
MATH 1140 - College Mathematics or a higher level MATH course

PHSC 1140 - Energy and the Environment  
or PHSC 1145 - Global Change  
or BIOL 1120 - Environmental Science  
POSC 1110 - American National Government  
POSC 2110 - State and Local Government  
POSC/HIST 3000-level Political Science or History Elective  
PSYC 1110 - General Psychology  
PSYC 2205 - Psychology of Adolescence  
SOC 1110 - Introduction to Sociology  
SOC 2125- The Family  
SPEC 2110 - Characteristics and Needs of Exceptional Learners  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners  
Science Elective - 2000 level

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Footnotes:**

<sup>1</sup>BIOL 1001 or 1002 recommended. Other Biology course requires adviser approval.

**Required Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the students in planning his/her curriculum and in preregistration, and monitors student progress on a semester by semester basis; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Visual Art**

## **Bachelor of Arts**

Curriculum Coordinator: Ward Roe, Professor

The bachelor of arts program in visual art provides a broad-based arts foundation, significant experimentation in a variety of studio areas, and is individually directed at advanced levels to meet the educational goals of the student. The B.A. program provides options for students to enter a variety of art and art-related fields by presenting a range of concentration areas in studio art augmented with choices of study from other academic disciplines. Studio concentrations are available in drawing and painting, printmaking, photography, graphic design, sculpture, ceramics, and glass. Additionally, students may also pursue a specialization in art therapy. The program provides sound preparation for artistic careers or further graduate study. It can be tailored with minors in most other academic areas of the College. Combined with the B.S. in Teaching: Art Education program, the degree can lead to teaching certification.

Students seeking admission to this program must present a portfolio, be interviewed by a member of the Keystone College Division of Fine Arts, and have a high school art teacher's recommendation. Transfer students must present a portfolio, be interviewed by a member of the Keystone College Division of Fine Arts and have obtained a 2.50 cumulative grade point average prior to formal admission to the program.

### **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

### **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

### **Competencies:**

Arts and Humanities Elective - Discipline 1 (ARHI 1001 recommended)  
Arts and Humanities Elective - 2000-level – Discipline 2 (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
Ethics Elective (ART 4810 recommended)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (3 credits minimum)  
Mathematics/Natural Science Elective – 2000-level (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences - Discipline 1 (3 credits minimum)  
Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)  
Technology Elective (ART 1145 recommended)

**Institutional Perspectives:**

Diversity Perspective Elective  
Environmental Sustainability Perspective Elective  
Global Perspective Elective  
Self-Directed and Independent Learning Perspective Elective  
Service Learning Perspective Elective  
Writing Intensive Perspective Elective

**Curriculum Requirements**

ARHI 1001 - Art History Survey I  
ARHI 1002 - Art History Survey II  
ARHI 3001 - Modern and Post-Modern Art  
ART 1110 - Color Theory  
ART 1120 - Drawing and Composition I  
ART 1125 - Figure Drawing I  
ART 1130 - Two-Dimensional Design  
ART 1135 - Three-Dimensional Design  
ART 1145 - Electronic Media in the Arts  
ART 2115 - Drawing and Composition II  
or ART 2125 - Figure Drawing II  
ART 2175 - Fundamentals of Sculpture  
ART 4810 - Professional Practices (Exhibit, Employment, and Ethics)<sup>3</sup>  
Fundamental Art Studio<sup>1</sup>  
Fundamental Art Studio<sup>4</sup>  
Fundamental Art Studio<sup>1</sup>  
Fundamental Art Studio<sup>1</sup>  
Fundamental Art Studio<sup>1</sup>  
Intermediate Art Studio<sup>1,2</sup>  
Intermediate Art Studio<sup>1,2</sup>  
Intermediate Art Studio<sup>1,2</sup>  
Advanced Art Studio/Senior Seminar<sup>1,2</sup>  
Advanced Art Studio/Senior Seminar<sup>1,2</sup>

**Fundamental Art Studios:**

ART 2135 - Fundamentals of Graphic Design  
ART 2140 - Fundamentals of Crafts  
ART 2145 - Fundamentals of Ceramics  
ART 2155 - Fundamentals of Glass  
ART 2160 - Fundamentals of Photography  
ART 2163 - Digital Photography  
ART 2175 - Fundamentals of Sculpture  
ART 2185 - Fundamentals of Painting  
ART 2190 - Fundamentals of Printmaking  
ART 2510 - Independent Study

**Intermediate Art Studios:**

ART 3010-3030 - Special Topics  
ART 3115 - Digital Projects  
ART 3120 - Book Arts  
ART 3135 - Graphic Design II  
ART 3145 - Ceramics II  
ART 3155 - Glass II  
ART 3160 - Photography II  
ART 3170 - Sculpture II  
ART 3180 - Painting II  
ART 3125 - Color Photography  
ART 3130 - Typography  
ART 3185 - Printmaking II  
ART 3510 - Independent Study  
ART 3610 - Independent Study

**Advanced Studio Art Concentration/Senior Seminar:**

ART 4911/4912/4913/4914 - Advanced Graphic Design/Senior Seminar<sup>3</sup>  
ART 4921/4922/4923/4924 - Advanced Ceramics/Senior Seminar<sup>3</sup>  
ART 4931/4932/4933/4934 - Advanced Glass/Senior Seminar<sup>3</sup>  
ART 4941/4942/4943/4944 - Advanced Photography/Senior Seminar<sup>3</sup>  
ART 4951/4952/4953/4954 - Advanced Sculpture/Senior Seminar<sup>3</sup>  
ART 4961/4962/4963/4964 - Advanced Drawing and Painting/Senior Seminar<sup>3</sup>  
ART 4971/4972/4973/4974 - Advanced Printmaking/Senior Seminar<sup>3</sup>

**Art Therapy Specialization:**

Students interested in specializing in art therapy in conjunction with B.A. degree in visual arts must also complete the following courses:

ARTH 3005 - Experiencing the Arts  
ARTH 3085 - Introduction to Art Therapy  
ARTH 4085 - Art Therapy Fieldwork (3 credits)  
PSYC 11101 - General Psychology  
PSYC 2115 - Developmental Psychology  
PSYC 3130 - Psychopathology

**Free Electives:** Sufficient free electives must be taken to ensure a minimum of 120 credits earned for graduation.

**Footnotes:**

<sup>1</sup> Students must complete a minimum of 30 credits of studio electives, including ART 2175.

<sup>2</sup> Intermediate and advanced art studio courses are determined by selection of fundamental art studio. Course selection must be approved by Keystone College Division of Fine Arts.

<sup>3</sup> In the semester in which seniors are conducting their senior exhibitions, they are required to concurrently enroll in both ART 4810 and a 4000-level senior seminar in their concentration area.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# Associate Degree Programs

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## **Allied Health - Medical Technology Emphasis Associate in Science**

Curriculum Coordinator: Dorothy Anthony, DC, DACBN, Assistant Professor

Keystone College offers a number of pre-professional tracts in the allied health disciplines including; nursing<sup>b</sup>, occupational therapy<sup>b</sup>, radiologic technology and diagnostic imaging<sup>a,b,c</sup>, radiation therapy<sup>c</sup>, respiratory care<sup>c</sup>, cardiac perfusion<sup>c</sup>, medical technology<sup>b,c</sup> and cytotechnology<sup>c</sup>. These programs provide the first two years of study required for the respective disciplines. After successful completion of all required coursework and experiential learning hours of study at Keystone College, the student will have the opportunity to transfer credits to articulating schools as listed for completion of studies within the discipline. The completion phase is usually an additional two years of study at the articulating university. Students in good academic standing will have all credits taken at Keystone College transfer into their respective affiliate programs. Students successfully completing all graduation requirements will receive an associate in science.

The pre-medical technology emphasis prepares students for entrance into the SUNY Upstate Medical University 2+2 program in medical technology. Medical technologists are clinical laboratory scientists. They perform and use sophisticated laboratory techniques to aid the physician in uncovering diseases and monitoring medical conditions.

<sup>a</sup>College Misericordia, Dallas, Pennsylvania

<sup>b</sup>Thomas Jefferson University, Philadelphia, Pennsylvania

<sup>c</sup>State University of New York, Upstate Medical University, Syracuse, New York

### **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

### **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

### **Competencies:**

Arts and Humanities Elective (Discipline 1) (3 credits minimum)

Arts and Humanities Elective (Discipline 2) (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (MATH 1125 or higher recommended)

Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences (Discipline 1) (PSYC 1110 recommended)  
Social and Behavioral Sciences (Discipline 2) (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Curriculum Requirements**

BIOL 1110 - Anatomy and Physiology I  
BIOL 1115 - Anatomy and Physiology II  
BIOL 1125 - General Biology I  
BIOL 1130 - General Biology II  
BIOL 2115 - Microbiology  
CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II  
CHEM 2110 - Organic Chemistry I  
EXPL - Experiential Learning<sup>1</sup>  
MATH 1125 - College Algebra or a higher level MATH course<sup>2</sup>  
MATH 2115 - Statistics  
PSYC 1110 - General Psychology

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 61 credits for graduation.

### **Footnotes:**

<sup>1</sup>Student must complete a minimum of one credit of EXPL.

<sup>2</sup>MATH 2115 does not satisfy this requirement.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Allied Health - Nursing/Cytotechnology Emphasis Associate in Science**

Curriculum Coordinator: Dorothy Anthony, DC, DACBN, Assistant Professor

Keystone College offers a number of pre-professional tracts in the allied health disciplines including; nursing<sup>a</sup>, occupational therapy<sup>a</sup>, radiologic technology and diagnostic imaging<sup>a,b</sup>, radiation therapy<sup>a</sup>, respiratory care<sup>b</sup>, cardiac perfusion<sup>b</sup>, medical technology<sup>b</sup> and cytotechnology<sup>b</sup>. These programs provide the first two years of study required for the respective disciplines. After successful completion of all required coursework and EXPL hours of study at Keystone College, the student will have the opportunity to transfer credits to articulating schools as listed for completion of studies within the discipline. The completion phase is usually an additional two years of study at the affiliate university.

Students in good academic standing will have all credits taken at Keystone College transfer into their respective affiliate programs. Students successfully completing all graduation requirements will receive an associate in science.

The nursing curriculum prepares students to work with physicians and other health care professionals wherever health care is provided. The cytotechnology curriculum prepares students as clinical investigators specializing in identification of cellular abnormalities, and aids in the diagnosis of benign and malignant conditions. The nursing/cytotechnology emphasis prepares students for entry into baccalaureate programs in nursing<sup>a</sup> or cytotechnology<sup>b</sup>.

<sup>a</sup>Thomas Jefferson University, Philadelphia, Pennsylvania

<sup>b</sup>State University of New York, Upstate Medical University, Syracuse, New York

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

### **Competencies:**

Arts and Humanities Elective (Discipline 1) (3 credits minimum)

\*Arts and Humanities Elective (Discipline 2) (3 credits minimum)

\*Consult with academic adviser regarding transfer institution requirements.

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (MATH 1125 or higher recommended)

Natural Science Laboratory Elective (BIOL 1125 recommended)

Social and Behavioral Sciences (Discipline 1) (PSYC 1110 recommended)

\*Social and Behavioral Sciences (Discipline 2) (SOC1 1110 recommended)

\*Consult with academic adviser regarding transfer institution requirements.

Technology Elective (3 credits minimum)

### **Curriculum Requirements**

BIOL 1110 - Anatomy and Physiology I

BIOL 1115 - Anatomy and Physiology II

BIOL 2002 - Nutrition

BIOL 2115 - Microbiology

BIOL 2145 - Bioethics

CHEM 1120 - General Chemistry I

CHEM 1125 - General Chemistry II

EXPL - Experiential Learning<sup>1</sup>

MATH 1125 -College Algebra or a higher-level MATH course<sup>2</sup>

MATH 2115 - Statistics

PSYC 1110 - General Psychology

PSYC 2110 - Developmental Psychology

PSYC 3130 - Psychopathology

SOCI 1110 - Introduction to Sociology

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 61 credits for graduation.

### **Footnotes:**

<sup>1</sup>Student must complete a minimum of one credit of EXPL.

<sup>2</sup>MATH 2115 does not satisfy this requirement.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Allied Health - Occupational Therapy/Respiratory Care Emphasis Associate in Science**

Curriculum Coordinator: Dorothy Anthony, DC, DACBN, Assistant Professor

Keystone College offers a number of pre-professional tracts in the allied health disciplines including; nursing<sup>b</sup>, occupational therapy<sup>b</sup>, radiologic technology and diagnostic imaging<sup>a,b,c</sup>, radiation therapy<sup>c</sup>, respiratory care<sup>c</sup>, cardiac perfusion<sup>c</sup>, medical technology<sup>b,c</sup> and cytotechnology<sup>c</sup>. These programs provide the first two years of study required for the respective disciplines. After successful completion of all required coursework and EXPL hours of study at Keystone College, the student will have the opportunity to transfer credits to affiliate schools as listed for completion of studies within the discipline. The completion phase is usually an additional two years of study at the articulating university. Students in good academic standing will have all credits taken at Keystone College transfer into their respective affiliate programs. Students successfully completing all graduation requirements will receive an associate in science.

Occupational therapists use goal-directed activities to promote functional performance in individuals affected by physical injury, birth defects, aging, or emotional or developmental problems. Respiratory therapists perform studies of pulmonary function in patients, aid in pulmonary treatment and exercise, and assist the physician in treating patients with pulmonary disease. This emphasis prepares students for entry into articulating schools, Thomas Jefferson University and SUNY Upstate Medical University respectively. These are both 2+2 BS programs.

<sup>a</sup>College Misericordia, Dallas, Pennsylvania

<sup>b</sup>Thomas Jefferson University, Philadelphia, Pennsylvania

<sup>c</sup>State University of New York, Upstate Medical University, Syracuse, New York

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (3 credits minimum)

Arts and Humanities Elective (Discipline 2) (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (MATH 1125 or higher recommended)

Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences (Discipline 1) (PSYC 1110 recommended)  
Social and Behavioral Sciences (Discipline 2) (SOC 1110 recommended)  
Technology Elective (3 credits minimum)

### **Curriculum Requirements**

BIOL 1110 - Anatomy and Physiology I  
BIOL 1115 - Anatomy and Physiology II  
BIOL 1125 - General Biology I  
BIOL 1140 - Medical Terminology  
EXPL - Experiential Learning<sup>1</sup>  
MATH 1125 - College Algebra or a higher level MATH course<sup>2</sup>  
MATH 2115 - Statistics  
PSYC 1110 - General Psychology  
PSYC 2110 - Developmental Psychology  
PSYC 3130 - Psychopathology  
SOC 1110 - Introduction to Sociology

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum 61 credits for graduation.

### **Footnotes:**

<sup>1</sup>Student must complete a minimum of one credit of EXPL.

<sup>2</sup>MATH 2115 does not satisfy this requirement.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Allied Health - Radiotherapy/Medical Imaging/Cardiac Perfusion Emphasis Associate in Science**

Curriculum Coordinator: Dorothy Anthony, DC, DACBN, Assistant Professor

Keystone College offers a number of pre-professional tracts in the allied health disciplines including; nursing<sup>b</sup>, occupational therapy<sup>b</sup>, radiologic technology and diagnostic imaging<sup>a,b,c</sup>, radiation therapy<sup>c</sup>, respiratory care<sup>c</sup>, cardiac perfusion<sup>c</sup>, medical technology<sup>b,c</sup> and cytotechnology<sup>c</sup>. These programs provide the first two years of study required for the respective disciplines. After successful completion of all required coursework and EXPL hours of study at Keystone College, the student will have the opportunity to transfer credits to affiliate schools as listed for completion of studies within the discipline. The completion phase is usually an additional two years of study at the articulating university.

Students in good academic standing will have all credits taken at Keystone College transfer into their respective affiliate programs. Students successfully completing all graduation requirements will receive an associate in science.

Radiotherapists assist physicians in treating patients with malignancies. Radiotherapists use targeted radiation to shrink or destroy malignancies. Medical imaging technologists assist in diagnosis and treatment of medical conditions using x-ray imaging, CAT scanning, Medical Ultrasound, MRI and nuclear medicine. Cardiac perfusion technologists are operating room specialists who conduct cardiopulmonary bypass during open heart surgery. This track prepares students for entry into these 2+2 affiliate programs at Thomas Jefferson University, and SUNY Upstate Medical College.

<sup>a</sup>College Misericordia, Dallas, Pennsylvania

<sup>b</sup>Thomas Jefferson University, Philadelphia, Pennsylvania

<sup>c</sup>State University of New York, Upstate Medical University, Syracuse, New York

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (3 credits minimum)

Arts and Humanities Elective (Discipline 2) (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (MATH 1125 recommended)  
Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences (Discipline 1) (PSYC 1110 recommended)  
\*Social and Behavioral Sciences (Discipline 2) (3 credits minimum)  
\*Consult with academic adviser regarding transfer institution requirements.  
Technology Elective (3 credits minimum)

### **Curriculum Requirements**

BIOL 1110 - Anatomy and Physiology I  
BIOL 1115 - Anatomy and Physiology II  
BIOL 1140 - Medical Terminology  
EXPL - Experiential Learning<sup>1</sup>  
Mathematics Elective (not taken as General Education course above)<sup>2</sup>  
MATH 2115 - Statistics  
PHYS 2110 - General Physics I  
PHYS 2125 - General Physics II  
PSYC 1110 - General Psychology

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 61 credits for graduation.

### **Footnotes:**

<sup>1</sup>Student must complete a minimum of one credit of EXPL.

<sup>2</sup>MATH 2115 does not satisfy this requirement.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The course requirements for the AS degree in Allied Health from Keystone College and the other course requirements for the outgoing transfer with Misericordia University are not the same. It is important to note that these two programs are not equivalent. Students pursuing the AS degree in allied health with a concentration in medical imaging from Keystone College who are also interested in transferring to Misericordia University, will need to complete additional course requirements in order to be accepted into the program at Misericordia University. For further information on academic advising, students should contact Misericordia University.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Art**

## **Associate in Fine Arts**

Curriculum Coordinator: Ward Roe, Professor

The curriculum in art is a complete, two-year foundation program which prepares students to continue in either of Keystone College's art programs, or for transfer into other colleges, art schools, and universities offering career programs in a wide spectrum of visual art fields. These include architecture, photography, art education, art therapy, painting, sculpture, printmaking, crafts, fashion, fabric, industrial, toy, and graphic design. As an individualized diagnostic program, the curriculum can effectively help students decide where their futures in art lie and provide guidance in choosing an appropriate transfer institution.

Applicants must present a portfolio, be interviewed by a member of the Keystone College Division of Fine Arts, and have a high school art teacher's recommendation. Most courses listed (note the prerequisites) are open to all students at Keystone. Students meeting all graduation requirements receive an associate in fine arts degree.

### **Graduation Requirements**

ENGL 0050 – Critical and Analytical Reading – All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

### **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

### **Competencies:**

COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (3 credits minimum)  
Technology Elective (ART 1145 recommended)  
Natural Science Laboratory Elective (3 credits minimum)  
Arts and Humanities Elective (Area 1) (ARHI 1001 recommended)  
Arts and Humanities Elective (Area 2) (3 credits minimum)  
Social and Behavioral Science Elective (3 credits minimum)

### **Curriculum Requirements**

ARHI 1001 - Art History Survey I  
ARHI 1002 - Art History Survey II  
ART 1110 - Color Theory

ART 1120 - Drawing and Composition I  
ART 1125 - Figure Drawing I  
ART 1130 - Two-Dimensional Design  
ART 1135 - Three-Dimensional Design  
ART 1140 - Portfolio Preparation  
ART 1145 - Electronic Media in the Arts  
ART 2115 - Drawing and Composition II  
or ART 2125 - Figure Drawing II  
ART 2175 - Fundamentals of Sculpture  
Art Studio Elective (chosen from list below)  
Art Studio Elective (chosen from list below)

**Art Studio Electives:**

ART 2135 - Fundamentals of Graphic Design  
ART 2140 - Fundamentals of Crafts  
ART 2145 - Fundamentals of Ceramics  
ART 2155 - Fundamentals of Glass  
ART 2160 - Fundamentals of Photography  
ART 2163 - Digital Photography  
ART 2185 - Fundamentals of Painting  
ART 2190 - Fundamentals of Printmaking  
ART 3010-3030 - Special Topics in Art  
ART 3115 - Digital Projects  
ART 3120 - Book Arts  
ART 3125 - Color Photography  
ART 3130 - Typography  
ART 3135 - Graphic Design II  
ART 3145 - Ceramics II  
ART 3155 - Intermediate Glass  
ART 3160 - Photography II  
ART 3170 -Sculpture II  
ART 3180 - Painting II  
ART 3185 - Printmaking II

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 67 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Business Administration Associate in Science**

Curriculum Coordinator: Janet DeAndrea, Professor  
and Dana Harris, Ph.D., Assistant Professor

In today's economic environment, every organization has to run as a successful business – whether the organization is a manufacturer, non-profit organization, sports team, retail store, or a college campus. Recognizing the wide range of career opportunities open to students, the business curriculum at Keystone College offers students many choices and great flexibility. Business administration provides the foundation needed by students who intend to eventually earn BS and MBA degrees. Also, it is an ideal choice for students who intend to be entrepreneurs or begin careers after associate degree graduation. Students meeting all graduation requirements receive an associate in science.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (3 credits minimum)  
Arts and Humanities Elective (Discipline 2) (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 102 - College Writing II: Writing About Literature (3 credits)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences (Discipline 1) (ECON 2110 recommended)  
Social and Behavioral Sciences (Discipline 2) (3 credits minimum)  
Technology Elective (3 credits minimum)

## **Curriculum Requirements**

ACCT 1155 - Financial Accounting  
BUSN 1110 - Introduction to Business  
BUSN 2110 - Principles of Management  
BUSN 2115 - Marketing  
BUSN 2130 - Written Communication

ECON 2110 - Principles of Economics I

ECON 2115 - Principles of Economics II

HRM 1110 - Introduction to Human Resource Management

Curricular Elective<sup>1</sup>

Curricular Elective<sup>1</sup>

Curricular Elective<sup>1</sup>

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 61 credits for graduation.

Footnotes:

<sup>1</sup>To be chosen from the following disciplines: ACCT, BUSN, EXPL, HRM, IT, LEAD, MATH, PSYC, SRM, or HOSP, or any course approved by the academic adviser.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Communications Associate in Arts**

Curriculum Coordinator: Dawn Middleton-Paradise, Assistant Professor

The communications curriculum is designed to provide students with a foundation that will prepare them to continue baccalaureate studies in the bachelor of arts: communication arts and humanities degree program.

The communications curriculum is also an appropriate choice for students who wish to transfer to colleges and universities offering baccalaureate programs in corporate communications, English, journalism, creative writing, and digital media and/or radio broadcasting.

The goals of the communications program are to prepare students for a variety of careers in the communications field within the context of a liberal arts tradition; to develop students' interpersonal, oral and written communication skills; to help students explore career options through experiential learning, and to challenge students to think critically and creatively.

Students selecting this curriculum will work closely with faculty advisers to develop course plans designed to meet the requirements of their specific area of interest and to assess their aptitude and progress. All communication majors are required to complete a minimum of three credits of experiential learning.

In addition, toward the end of the sophomore year, all students in this major must present a portfolio of their best work to a faculty panel for evaluation. The portfolio also serves as a major consideration towards the student's acceptance into the bachelor of arts: communication arts and humanities degree program.

Further consideration for acceptance into the bachelor's program will be contingent upon a successful sophomore year review conducted by the division.

Students meeting all graduation requirements receive an associate in arts degree.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (3 credits minimum)

Arts and Humanities Elective (Discipline 2) (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

FYS 1110 - The First-Year Seminar (2 credits minimum)

Health and Wellness Elective (1 credit minimum)

Mathematics Elective (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences (Discipline 1) (3 credits minimum)  
Social and Behavioral Sciences (Discipline 2) (3 credits minimum)  
Technology Elective (3 credits minimum)

### **Curriculum Requirements**

COMM 1115 - Interpersonal Communication  
COMM 1120 - Mass Communication  
Literature Elective - 2000-level<sup>1</sup>  
Literature Elective - 2000-level<sup>1</sup>  
COMM 2110 - Professional Speech  
EXPL - Experiential Learning<sup>2</sup>  
Curricular Elective (chosen from list below)  
Curricular Elective (chosen from list below)  
Curricular Elective - 2000-level (chosen from list below)  
Curricular Elective - 2000-level (chosen from list below)

### **Curricular Electives:**

Students must successfully complete a minimum of four (4) of the following courses (a minimum of 12 credits), at least two (2) of which are at the 2000-level or higher. Students are responsible for meeting any pre-requisite requirements for course selections below.

ANTH 1110 - Introduction to Cultural Anthropology  
ART 1130 - Two-Dimensional Design  
ART 1145 - Electronic Media in the Arts  
ART 2135 - Fundamentals of Graphic Design  
ART 2160 - Fundamentals of Photography  
BUSN 2110 - Principles of Management  
BUSN 2115 - Marketing  
BUSN 2130 - Written Communication  
BUSN 2145 - Advertising  
BUSN 2160 - Sales  
COMM 2145 - Public Relations  
COMM 2155 - Introduction to Radio Production  
COMM 2160 - Digital Media Production  
ENGL 2110 - American Literature I  
ENGL 2115 - American Literature II  
ENGL 2120 - Western World Literature I  
ENGL 2125 - Western World Literature II  
ENGL 2145 - Creative Writing  
ENGL 2155 - Introduction to Poetry  
ENGL 2160 - Introduction to the Novel  
ENGL 2165 - Introduction to Dramatic Literature  
FILM 1110 - Introduction to Cinema  
IT 1130 - Web Programming I  
IT 1135 - Web Programming II  
IT 2110 - Intermediate PC Office Applications  
JOUR 1110 - Introduction to Journalism  
JOUR 2110 - Feature Writing

LEAD 1110 - Foundations of Leadership  
LEAD 2110 - Team Building  
MUSC 1110 - Introduction to Music  
PHIL 1110 - Introduction to Philosophy I  
PHIL 1115 - Introduction to Philosophy II  
SPAN 1110 - Elementary Spanish I  
SPAN 1115 - Elementary Spanish II  
THEA 1120 - Introduction to Theatre  
THEA 1125 - Acting I: The Basics of Performance  
THEA 2120 - Survey of Technical Theatre  
THEA 2125 - Acting II: Techniques and Styles

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 63 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

**Footnotes:**

<sup>1</sup>To be chosen from ENGL 2110, 2115, 2120, 2125, 2155, 2160, or 2165.

<sup>2</sup>Students must successfully complete a minimum of 3 credits of EXPL.

The academic advisor assists the student in planning his/her curriculum and in pre-registration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Criminal Justice Associate in Science**

Curriculum Coordinator: Ray Hayes, M.S., Instructor

The criminal justice curriculum, which is designed for transfer into a baccalaureate degree program, will provide students with a solid foundation in criminal justice and the liberal arts. Students successfully completing this degree may continue at Keystone College and earn a bachelor of science in criminal justice. Students meeting all graduation requirements receive an associate in science degree.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (3 credits minimum)  
Arts and Humanities Elective (Discipline 2) (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (3 credits minimum)  
Natural Science Laboratory Elective (3 credits minimum)  
Social and Behavioral Sciences (Discipline 1) (PSYC 1110 recommended)  
Social and Behavioral Sciences (Discipline 2) (POSC 2110 recommended)  
Technology Elective (3 credits minimum)

## **Curriculum Requirements**

CJ 1115 - Introduction to Criminal Justice  
CJ 2110 - Criminology  
CJ 2125 - Juvenile Delinquency  
CJ 2135 - Policing in America  
CJ 2140 - Corrections in America  
CJ 2710 - Field Experience I<sup>1</sup>  
    or Curricular Elective  
POSC 2110 - State and Local Government  
    or POSC 3130 - Public Policy  
PSYC 2110 - Developmental Psychology  
    or PSYC 2205 - Psychology of Adolescence

or PSYC 2210 - Adulthood and Aging

**Free Electives:** Free Electives: Sufficient free electives must be taken to ensure the student has earned a minimum of 61 credits.

**Footnotes:**

<sup>1</sup>Field Experiences are limited to those students with 2.5 GPA in their major and recommendation of the curriculum coordinator. Students who are eligible for a field experience must attend CJ 2715 (Field Experience Preparation)

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Culinary Arts Associate in Applied Science**

Curriculum Coordinator: Chef Melodie Jordan, Assistant Professor

The culinary art major is based on the skills required for entry level into the food service industry. Students will be exposed to classical and modern techniques used in industry. Classes are composed into a block scheduling format to further enhance their education and provide additional hands-on experience. Upon completion of this program, the student is required to take and pass the NOCTI examination designated for their curriculum. Students are required to participate in all culinary arts functions. Students meeting all graduation requirements receive an associate in applied science. Upon enrolling in CULN 1120 students will be charged for a professional knife kit (\$250) and uniform package (\$250). Upon enrolling in CULN 2130, the student's account will be charged for a uniform package (\$250). Enrollees are also required to purchase non-skid black leather lace-up shoes. These costs are in addition to other required fees.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading. All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (3 credits minimum)  
Technology Elective (3 credits minimum)  
Natural Science Elective  
    or Social and Behavioral Sciences Elective (3 credits minimum)  
    or Arts and Humanities Elective (3 credits minimum)

## **Curriculum Requirements:**

BIOL 2003 - Lifecycle Nutrition  
    or BIOL 2002 - Nutrition  
CULN 1120 - Stocks, Sauces, and Skills  
CULN 1125 - Meat and Fish Fabrication  
CULN 1130 - American Cuisine  
CULN 1135 - Cuisines of the World  
CULN 1140 - Introduction to Baking  
CULN 1155 - Breakfast Cooking Seminar

CULN 1160 - Cooking Methodologies  
CULN 1170 - Introduction to Culinary Management  
CULN 1175 - Garde Manger  
CULN 2115 - Bar and Beverage Management  
CULN 2120 - Cakes, Tortes, and Desserts  
CULN 2130 - Restaurant Operations Management  
CULN 2140 - NOCTI Food Preparation Examination  
CULN 2150 - Restaurant Development and Practicum  
CULN 2145- Techniques of Healthy Cooking  
HOSP 1140 - Food and Labor Cost Control  
HOSP 1165 - Applied Food Service Sanitation  
HOSP 2135 - Purchasing for Hospitality Professionals

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 61 credits for graduation.

Recommended Sequence of Courses: Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information. The academic advisor assists the student in planning his/her curriculum and in pre-registration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Early Childhood Education Associate in Science**

Curriculum Coordinator: Carol Fontana, M.S., Professor

The Associate of Science degree in Early Childhood Education prepares students to work with children, newborn to nine years of age in a variety of settings, including schools, day care centers, Head Start, nursery schools, homes, hospitals, social service agencies, and early intervention programs for children with special needs. Graduates of the associate in science program are prepared for entry-level positions or to continue in Keystone College's baccalaureate degree program in early childhood. Students engage in fieldwork every semester. A field component consists of weekly observation/participation/teaching supervised by College faculty. Fieldwork requires current FBI, criminal history and child abuse clearances, as well as a current health appraisal including a negative TB test. The field experience fee is \$175 per semester.

## **Graduation Requirements:**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found on pages 42 and also in the Education Handbook.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (HIST 1130 or 1135 recommended)  
Arts and Humanities Elective (Discipline 2) (ENGL 2110 or 2115 recommended)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (PHED 1110 recommended)  
Mathematics Elective (MATH 1125 recommended)  
Natural Science Laboratory Elective (BIOL laboratory course recommended)  
Social and Behavioral Sciences (Discipline 1) (PSYC 2190 recommended)  
Social and Behavioral Sciences (Discipline 2) (EDUC 2130 recommended)  
Technology Elective (IT 1115 recommended)

## **Curriculum Requirements**

Biology Laboratory Elective  
ECE 1110 - Introduction to Early Childhood Education  
ECE 2115 - Curriculum and Program Planning (3-8)  
ECE 2160 - Health and Wellness of Young Children  
ECE 2715 - Community Based Early Childhood Education Field Experiences  
ECE 2180 - Seminar in Early Childhood Education  
ECE Elective (chosen from list below)

ECE Elective (chosen from list below)  
ECE Elective (chosen from list below)  
EDUC 1710-1725 - Observation/Participation  
EDUC 1110 - Introduction to Teaching  
EDUC 2130 - Child, Family, and Community  
IT 1115 - Introduction to PC Office Applications  
PSYC 2190 - Child Development I  
PSYC 2195 - Child Development II

**ECE Electives:**

ECE 2010 - Special Studies in ECE  
ECE 3150 - Administration and Supervision in Schools for Young Children  
EDUC 2125 - Teaching Literacy through Literature  
PSYC 3165 - Play, Cognition, and Learning  
SOC 1110 - Introduction to Sociology  
SPEC 2110 - Characteristics and Needs of Exceptional Learners  
SPEC 2115 - Special Education Processes and Procedures  
SPEC 2120 - Early Intervention and Transitions  
\*Other courses require advisor approval.

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 61 credits for graduation.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Environmental Studies Associate in Arts**

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

The environmental resource management curriculum is primarily concerned with the relationships of people and their societal institutions with the natural world. Students successfully completing this curriculum are guaranteed acceptance at State University of New York - Syracuse. The environmental studies curriculum also transfers to a variety of other institutions. Students meeting all graduation requirements receive an associate in arts.

Bachelor's degrees lead to the following emphases: land use planning, biological science application, information and technology, policy and management, and environmental communications.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (HIST 1115 recommended)  
Arts and Humanities Elective (Discipline 2) (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 2150 recommended)  
Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences (Discipline 1) (POSC 1110 or 2110 recommended)  
Social and Behavioral Sciences (Discipline 2) (ECON 2110 or 2115 recommended)  
Technology Elective (3 credits minimum)

## **Curriculum Requirements**

BIOL 1010/1036 - Field Biology (2 credits minimum)  
BIOL 1039 - Horticulture  
BIOL 1125 - General Biology I  
BIOL 1130 - General Biology II  
BIOL 2120 - Introductory Ecology  
CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II  
or PHYS 2110 - General Physics I

ECON 2110 - Principles of Economics I  
or ECON 2115 - Principles of Economics II  
ENVT 2125 - Environmental Policy and Management  
EXPL - Experiential Learning (1 credit minimum)  
GEOL 2110 - Physical Geology  
HIST 1115 - Western Civilization  
HIST 1130 - U. S. History I  
or HIST 1135 - U. S. History II  
MATH 2150 - Calculus I  
POSC 1110 - American National Government  
or POSC 2110 - State and Local Government

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 70 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Forestry Resource Management Associate in Arts**

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

The forestry resource management curriculum prepares students for the management of forest-related resources and their environments for human benefit. The forestry resource management curriculum transfers to a variety of institutions. Students meeting all graduation requirements receive an associate in arts. Bachelor's degrees lead to the following emphases: forestry, water resource management, wood products, and recreation management.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (HIST 1115 recommended)  
Arts and Humanities Elective (Discipline 2) (3 credits minimum)  
COMM 1125 - Speech Communication (3 credits)  
ENGL 1110 - College Writing I: Academic Writing (3 credits)  
ENGL 1125 - College Writing II: Writing About Literature (3 credits)  
FYS 1110 - The First-Year Seminar (1 credit minimum)  
Health and Wellness Elective (2 credits minimum)  
Mathematics Elective (MATH 2150 recommended)  
Natural Science Laboratory Elective (BIOL 1125 recommended)  
Social and Behavioral Sciences (Discipline 1) (3 credits minimum)  
Social and Behavioral Sciences (Discipline 2) (ECON 2110 or 2115 recommended)  
Technology Elective (3 credits minimum)

## **Curriculum Requirements**

ANTH 1110 - Cultural Anthropology  
or ANTH 2110 - People and Cultures of Africa  
or RELG 2110 - Survey of Religion  
BIOL 1125 - General Biology I  
BIOL 1130 - General Biology II  
BIOL 2120 - Introductory Ecology  
CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II

ECON 2110 - Principles of Economics I  
or ECON 2115 - Principles of Economics II  
ENGL 2155 - Introduction to Poetry  
or MUSC 1110 - Introduction to Music  
or any ART course  
EXPL - Experiential Learning  
HIST 1115 - Western Civilization  
HIST 1130 - U. S. History I  
or HIST 1135 - U. S. History II  
MATH 2115 - Statistics  
MATH 2150 - Calculus I  
PHYS 2110 - General Physics I  
PHYS 2125 - General Physics II  
Curricular Elective (chosen from physical science disciplines or BUSN 2110)  
Curricular Elective (chosen from physical science disciplines or BUSN 2110)

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 69 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Information Technology Associate in Applied Science**

Curriculum Coordinator: Kasey Chermak, Instructor

The associate degree in information technology (IT) is designed for individuals interested in professional careers in the IT field. Student instruction is centered on database management, programming concepts, and networking fundamentals in addition to other relevant courses to prepare graduates for today's ever-changing business environment.

Students completing the associate degree may continue at Keystone College and earn a bachelor of science degree in information technology with a specialization in networking engineering or business information systems.

Students meeting all graduation requirements receive an associate in applied science.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

- COMM 1125 - Speech Communication (3 credits)
- ENGL 1110 - College Writing I: Academic Writing (3 credits)
- ENGL 1125 - College Writing II: Writing About Literature (3 credits)
- FYS 1110 - The First-Year Seminar (1 credit minimum)
- Health and Wellness Elective (2 credits minimum)
- Mathematics Elective (3 credits minimum)
- Technology Elective (3 credits minimum)
- Natural Science Elective (3 credits minimum)
  - or Social and Behavioral Sciences Elective (3 credits minimum)
  - or Arts and Humanities Elective (3 credits minimum)

## **Curriculum Requirements**

- ACCT 1125 - Managerial Accounting
- ACCT 1160 - Survey of Accounting
- BUSN 2110 - Principles of Management
- BUSN 2130 - Written Communication
- IT 1110 - Introduction to Information Technology
- IT 1120 - Introduction to Programming
- IT 1130 - Web Programming I
- IT 1135 - Web Programming II
- IT 2115 - Database Management Systems I

IT 2120 - Database Management Systems II

IT 2165 - Networking I

IT 2170 - Networking II

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 61 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic advisor assists the student in planning his/her curriculum and in pre-registration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Landscape Architecture Associate in Arts**

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

The landscape architecture curriculum prepares students for transfer to a baccalaureate institution where they will acquire the skills and knowledge necessary for landscape architecture. Students successfully completing the landscape architecture curriculum are guaranteed acceptance at State University of New York - Syracuse.

This curriculum also transfers to a variety of other institutions. Students meeting all graduation requirements receive an associate in arts.

Bachelor's degrees lead to the following emphases: design, planning, and design history and theory.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (HIST 1130 or 1135 recommended)

Arts and Humanities Elective (Discipline 2) (ARHI 1001 or 1002 recommended)

COMM 1125 -Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (MATH 1155 or 2155 recommended)

Natural Science Laboratory Elective (BIOL 1125 recommended)

Social and Behavioral Sciences (Discipline 1) (3 credits minimum)

Social and Behavioral Sciences (Discipline 2) (PSYC 1110 or SOCI 1110 recommended)

Technology Elective (3 credits minimum)

## **Curriculum Requirements**

ANTH 1110 - Cultural Anthropology

or ANTH 2110 - People and Cultures of Africa

or RELG 2110 - Survey of Religion

ARHI 1001 - Art History Survey I

or ARHI 1002 - Art History Survey II

ART 1120 - Drawing and Composition I  
or ART 1125 - Figure Drawing I  
ART 1130 - Two-Dimensional Design  
or ART 1135 - Three-Dimensional Design  
BIOL 1010/1070 - Field Biology (total of 2 credits minimum)  
BIOL 1039 - Horticulture  
BIOL 1125 - General Biology I  
BIOL 1130 - General Biology II  
BIOL 2120 - Introductory Ecology  
ENVT 2110 - GIS/GPS  
EXPL – Experiential Learning (1 credit minimum)  
HIST 1130 - U. S. History I  
or HIST 1135 - U. S. History II  
MATH 1155 - Pre-Calculus  
or MATH 2115 - Statistics  
PHSC 1135 - Geology  
PSYC 1110 - General Psychology  
or SOCI 1110 - Introduction to Sociology  
Science Elective (total of 3 credits minimum)

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 67 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Liberal Studies Associate in Arts**

Curriculum Coordinator: Sara White, Assistant Professor

The liberal studies curriculum at Keystone College is designed to parallel the first two years of a baccalaureate program. While this program emphasizes flexibility, it also allows students the opportunity to choose an area of concentration in English, history, political science, or sociology. Students meeting all graduation requirements receive an associate in arts degree.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (3 credits minimum)

Arts and Humanities Elective (Discipline 2) (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (3 credits minimum)

Natural Science Laboratory Elective (3 credits minimum)

Social and Behavioral Sciences (Discipline 1) (3 credits minimum)

Social and Behavioral Sciences (Discipline 2) (3 credits minimum)

Technology Elective (3 credits minimum)

## **Curriculum Requirements**

General Education Elective

General Education Elective

General Education Elective

Curricular Elective 2000-level or higher

Curricular Elective 2000-level or higher

Curricular Elective 2000-level or higher

Literature Elective 2000-level or higher'

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 66 credits for graduation.

**Footnotes:**

<sup>1</sup>To be chosen from ENGL 2110, 2115, 2120, 2125, 2150, 2160, or 2160.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

## **Pre-Major**

Curriculum Coordinator: Patricia Jennings, Associate Professor

The pre-major curriculum is designed to meet the needs of two types of students, those who wish to earn a college degree but who have not yet chosen a specific major, and those who need additional academic preparation before declaring the major of their choice.

The pre-major program offers students the opportunity to explore various careers and majors, to enroll in a variety of transferable college courses, and to complete foundation courses required for the various majors available at Keystone College. Once a student has earned 30 credits, the student must declare a major. The degree earned is based on the major selected.

It is **strongly recommended** that students in the pre-major program participate in seminars conducted by the Career Development Center.

These seminars will cover such topics as, but are not limited to, self discovery, choosing a major, and deciding on a career. A range of assessments will be utilized in order to help students who are undecided in their career planning make appropriate course selections.

### **Program Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

Students following this program can declare a major at anytime; however, they must declare a major when they earn 30 credits.

### **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

### **Competencies:**

- Arts and Humanities Elective (Discipline 1) (3 credits minimum)
- Arts and Humanities Elective (Discipline 2) (3 credits minimum 2000-level)
- COMM 1125 - Speech Communication (3 credits)
- ENGL 1110 - College Writing I: Academic Writing (3 credits)
- ENGL 1125 - College Writing II: Writing About Literature (3 credits)
- Ethics Elective (3 credits minimum)
- FYS 1110 - The First-Year Seminar (1 credit minimum)
- Health and Wellness Elective (2 credits minimum)
- Mathematics Elective (3 credits minimum)
- Mathematics/Natural Science Elective - 2000-level (3 credits minimum)
- Natural Science Laboratory Elective (3 credits minimum)
- Social and Behavioral Sciences - Discipline 1 (3 credits minimum)
- Social and Behavioral Sciences - 2000-level – Discipline 2 (3 credits minimum)
- Technology Elective (3 credits minimum)

**Institutional Perspectives:**

Diversity Perspective Elective

Environmental Sustainability Perspective Elective

Global Perspective Elective

Self-Directed and Independent Learning Perspective Elective

Service Learning Perspective Elective

Writing Intensive Perspective Elective

Students are encouraged to discuss with their advisers selection of appropriate general education electives beneficial to their future goals.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# **Wildlife Biology Associate in Arts**

Curriculum Coordinator: Robert Cook, Ph.D., Associate Professor

The wildlife biology curriculum is a pre-professional program designed to meet the initial educational needs of students who will continue study in ecology, zoology, and other related fields. Career opportunities for wildlife biologists are predominantly with state and federal agencies or consulting firms. Most jobs require the application of biological concepts to the management of the wildlife resource for the public good. Students meeting all graduation requirements receive an associate in arts.

Bachelor's degrees lead to the following emphases: aquarist, aquatic biologist, fisheries biologist, wildlife conservation specialist, wildlife biologist, wildlife researcher, wildlife manager, biology teacher, environmental education specialist, and zoo curator.

## **Graduation Requirements**

ENGL 0050 - Critical and Analytical Reading: All students must either test-out of or successfully complete this course for graduation. The course carries two credits which are included in full-time status and financial aid considerations, but do not count toward the minimum earned credits necessary for graduation. Students who test-out of the course receive an exemption that does not carry credits.

All students must successfully complete the General Education and Curriculum requirements listed below with a minimum overall grade point average of 2.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42.

## **General Education Requirements**

Courses fulfilling the General Education Requirements can be found beginning on page 58.

## **Competencies:**

Arts and Humanities Elective (Discipline 1) (HIST 1130 or 1135 recommended)

Arts and Humanities Elective (Discipline 2) (3 credits minimum)

COMM 1125 - Speech Communication (3 credits)

ENGL 1110 - College Writing I: Academic Writing (3 credits)

ENGL 1125 - College Writing II: Writing About Literature (3 credits)

FYS 1110 - The First-Year Seminar (1 credit minimum)

Health and Wellness Elective (2 credits minimum)

Mathematics Elective (MATH 2150 recommended)

Natural Science Laboratory Elective (BIOL 1125 recommended)

Social and Behavioral Sciences (Discipline 1) (3 credits minimum)

Social and Behavioral Sciences (Discipline 2) (PSYC 1110 or SOCI 1110 recommended)

Technology Elective (3 credits minimum)

## **Curriculum Requirements**

BIOL 1010/1070 - Field Biology (total 4 credits minimum)

BIOL 1125 - General Biology I

BIOL 1130 - General Biology II

BIOL 2115 - Microbiology

BIOL 2120 - Introductory Ecology  
CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II  
CHEM 2110 - Organic Chemistry I  
EXPL - Experiential Learning (1 credit minimum)  
HIST 1115 - Western Civilization  
HIST 1130 - U. S. History I  
or HIST 1135 - U. S. History II  
MATH 2150 - Calculus  
PHYS 2110 - General Physics I  
PHYS 2125 - General Physics II  
or CHEM 2115 - Organic Chemistry II  
or MATH 2155 - Calculus II  
PSYC 1110 - General Psychology  
or SOCI 1110 - Introduction to Sociology  
Science Elective (3 credits minimum)

**Free Electives:** Sufficient free electives must be taken to ensure the student has earned a minimum of 71 credits for graduation.

**Recommended Sequence of Courses:** Visit [www.keystone.edu/academics](http://www.keystone.edu/academics) for further information.

The academic adviser assists the student in planning his/her curriculum and in preregistration; however, the student is ultimately responsible for meeting the requirements of the curriculum selected.

# Certificates and Transfer Programs

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## Accelerated Certification Program Art Education

Curriculum Coordinator: David W. Porter, M.A., Professor

The accelerated certification program in art education is designed to provide individuals who have obtained a bachelor's degree in visual art or studio art, or a master's degree in an art discipline, with education coursework that can lead to teaching certification in the state of Pennsylvania. The program targets the development of skilled teachers who can utilize best practices for planning and preparing environments and instruction in the arts in K-12 classrooms. A minimum of 30 credits must be taken at the College for the certificate, and all prerequisites required for recommendation for certification, including fieldwork, must be completed. All education majors require a 3.00 GPA to gain admission to the program and a cumulative 3.00 GPA to continue in the program, as well as a 3.00 GPA in psychology, early childhood education, special education, art education, social studies, mathematics, and middle level education. Students must obtain a "C" or better in the content courses in the major. Students earning lower than a "C" must retake the course.

All students must successfully complete the Graduation Requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42 and also in the Education Handbook.

### Graduation Requirements

EDUC 1710-1735 - Field Observation/Participation  
EDUC 1110 - Introduction to Teaching  
EDUC 2135- Teaching in the Secondary Schools  
EDUC 3150 - Art Education Media and Methods/Elementary Methods  
EDUC 3165 - Developmental Assessment II  
EDUC 3210 - Teaching English Language Learners  
EDUC 4160 - Art Education Media and Methods/Secondary Methods  
EDUC 4730 - Student Teaching at the Elementary or Intermediate Level  
EDUC 4745 - Student Teaching at the Secondary Level  
EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
SPEC 2110 - Characteristics and Needs of Exceptional Learners  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners

**Education Electives:** Sufficient EDUC/SPEC/ECE courses to ensure a minimum of 30 credits earned at Keystone College for graduation.

Any student with a bachelor's degree who is interested in obtaining certification in art education at Keystone College must complete a minimum of 30 credits at the College in order to be recommended to the Pennsylvania Department of Education for certification. If any of the required courses have been accepted by Keystone Col-

lege as transfer credits into this program, a list of acceptable alternative courses will be provided to the student in order to ensure completion of the 30-credit minimum. A minimum of 150 hours of classroom field experiences are required prior to student teaching. Evidence of previously completed field experiences does not count toward the 150 hours required.

# **Accelerated Certification Program Early Childhood Education**

Curriculum Coordinator: Carol Fontana, M.S., Professor

The accelerated certification program in Early Childhood Education is designed to provide individuals who have obtained a bachelor's degree with coursework in education. The program targets the development of skilled individuals who can utilize best practices for planning and preparing environments and instruction in early childhood education classrooms.

The Accelerated Early Childhood Education Certification curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education, and special education. Students must obtain a "C" or better in the content courses in the major. Students earning lower than a "C" must retake the course.

Students with an Instructional I certificate in ECE (N-3), ECE (PreK-4) or Elementary Education (K-6) may utilize previous coursework for required courses as determined by the adviser and Registrar.

All students must successfully complete the Graduation Requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42 and also in the Education Handbook.

## **Graduation Requirements**

ECE 2115 - Curriculum and Program Planning: Ages 3-8  
or EDUC 3110 - Curriculum Planning  
or ECE 3120 - Curriculum and Methods: Mathematics  
or ECE 3125 - Curriculum and Methods: Citizenship and Social Studies  
or ECE 3130 - Curriculum and Methods: Science  
ECE 3135 - Early Literacy Foundations  
ECE 3145 - Teaching Reading Grades 2-4  
EDUC 1710-1735 - Field Observation/Participation  
EDUC 3155 - Developmental Assessment I  
or EDUC 3165 - Developmental Assessment II  
EDUC 3210 - Teaching English Language Learners  
EDUC 4720 - Student Teaching in Early Childhood Education (PreK-2)  
EDUC 4725 - Student Teaching in Early Childhood Education (Grades 2-4)  
PSYC 2190 - Child Development I  
or PSYC 2195 - Child Development II  
or PSYC 3165 - Play, Cognition and Learning  
SPEC 2110 - Characteristics and Needs of Exceptional Learners  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners

Any student with a bachelor's degree who is interested in obtaining Pennsylvania Department of Education certification in early childhood education through Keystone College, must complete all program requirements to be recommended to the Pennsylvania Department of Education for certification. If any of the required courses have been met and have been accepted by Keystone College as transfer credits, the courses do not have to be repeated. Field experiences are required.

## **Accelerated Certification Program Early Childhood/Special Education**

Curriculum Coordinator: Karen Arcangelo, Ph.D., Assistant Professor

The accelerated certification program in Early Childhood/Special Education is designed to provide individuals who have obtained a bachelor's degree with coursework in education. The program targets the development of skilled individuals who can utilize best practices for planning and preparing environments and instruction in early childhood education classrooms.

The Accelerated Early Childhood/Special Education Certification curriculum requires a 3.0 GPA to gain admission to the program and a cumulative 3.0 GPA to continue in the program, as well as a 3.0 GPA in psychology, early childhood education and special education. Students must obtain a "C" or better in the content courses in the major. Students earning lower than a "C" must retake the course.

Students with an Instructional I certificate in ECE (N-3), ECE (PreK-4) or Elementary Education (K-6) may utilize previous coursework for required courses as determined by the adviser and Registrar.

All students must successfully complete the Graduation Requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42 and also in the Education Handbook.

### **Graduation Requirements**

ECE 2115 -Curriculum and Program Planning: Ages 0-3  
or EDUC 3110 - Curriculum Planning  
or ECE 3120 - Curriculum and Methods: Mathematics  
or ECE 3125 - Curriculum and Methods: Citizenship and Social Studies  
or ECE 3130 - Curriculum and Methods: Science  
ECE 3135 - Early Literacy Foundations  
ECE 3145 - Teaching Reading Grades 2-4  
EDUC 1710-1735 - Field Observation/Participation  
EDUC 3155 - Developmental Assessment I  
or EDUC 3165 - Developmental Assessment II  
EDUC 3210 - Teaching English Language Learners  
EDUC 4710 - Student Teaching Special Education (PreK-8)  
EDUC 4720 Student Teaching in Early Childhood Education (PreK-2)  
PSYC 2190 - Child Development I  
or PSYC 2195 - Child Development II  
or PSYC 3165 - Play, Cognition and Learning  
SPEC 2110 - Characteristics and Needs of Exceptional Learners  
SPEC 2115 - Special Education Processes and Procedures  
SPEC 2120 - Early Intervention and Transitions  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners  
SPEC 3120 -Low Incidence Disabilities: Assessment and Instruction  
SPEC 3125 - Evidence Based Effective Instruction

SPEC 3130 - Learning Disabilities: Identification and Instruction

SPEC 3135 - Technology: Assistive and Universal Design

SPEC 4110 - Family Partnerships: Advocacy, Collaboration, and Transitions

Any student with a bachelor's degree who is interested in obtaining Pennsylvania Department of Education certification in early childhood education/special education at Keystone College must complete all program requirements and be recommended to the Pennsylvania Department of Education for certification. If any of the requirements have been accepted by Keystone College as transfer credits, the courses do not have to be repeated. Field experiences are required.

# Accelerated Certification Program Math Education

Curriculum Coordinator: Patricia Bederman Miller, Ph.D., Professor

The accelerated certification program in mathematics education is designed to provide individuals who have obtained a bachelor's degree with coursework in education. The program targets the development of skilled teachers who can utilize best practices for planning and preparing environments and instruction in mathematics in 7-12 classrooms. A minimum of 30 credits must be taken at the College for the certificate and all prerequisites required for recommendation for certification, including fieldwork, must be completed. All education majors require a 3.00 GPA to gain admission to the program and a cumulative 3.00 GPA to continue in the program, as well as a 3.00 GPA in psychology, early childhood education, special education, art education, social studies, mathematics, and middle level education. Students must obtain a "C" or better in the content courses in the major. Students earning lower than a "C" must retake the course.

All students must successfully complete the Graduation Requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42 and also in the Education Handbook

## Graduation Requirements

EDUC 1710-1735 - Field Observation/Participation

EDUC 1110 - Introduction to Teaching

EDUC 2135 - Teaching in the Secondary Schools

EDUC 3165 - Developmental Assessment II

EDUC 3200 - Mathematics Education and Methods/Secondary Methods

EDUC 3210 - Teaching English Language Learners

EDUC 4730 - Student Teaching at the Elementary/Intermediate Level

EDUC 4745 - Student Teaching at the Secondary Level

EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education

SPEC 2110 - Characteristics and Needs of Exceptional Learners

SPEC 3110 - Classroom Management

SPEC 3115 - Differentiated Instruction for Diverse Learners

**Education Electives:** Sufficient EDUC/SPEC/ECE courses to ensure a minimum of 30 credits earned at Keystone College for graduation.

Any student with a bachelor's degree who is interested in obtaining certification in mathematics education at Keystone College must complete a minimum of 30 credits at the College in order to be recommended to the Pennsylvania Department of Education for certification. If any of the required courses have been accepted by Keystone College as transfer credits into this program, a list of acceptable alternative courses will be provided to the student in order to ensure completion of the 30-credit minimum. A minimum of 150 hours of classroom field experiences are required prior to student teaching. Evidence of previously completed field experiences does not count toward the 150 hours required.

# **Accelerated Certification Program Social Studies Education**

Curriculum Coordinator: Janet Wrightnour, Associate Professor

The accelerated certification program in social studies education is designed to provide individuals who have obtained a bachelor's degree with coursework in education. The program targets the development of skilled teachers who can utilize best practices for planning and preparing environments and instruction in social studies in 7-12 classrooms. A minimum of 30 credits must be taken at the College for the certificate and all prerequisites required for recommendation for certification, including field-work, must be completed. All education majors require a 3.00 GPA to gain admission to the program and a cumulative 3.00 GPA to continue in the program, as well as a 3.00 GPA in psychology, early childhood education, special education, art education, social studies, mathematics, and middle level education. Students must obtain a "C" or better in the content courses in the major. Students earning lower than a "C" must retake the course.

All students must successfully complete the Graduation Requirements listed below with a minimum overall grade point average of 3.00 to graduate from this curriculum. Additional graduation criteria are found beginning on page 42 and also in the Education Handbook.

## **Graduation Requirements**

EDUC 1710-1735 - Field Observation/Participation  
EDUC 1110 - Introduction to Teaching  
EDUC 2135 - Teaching in the Secondary Schools  
EDUC 3165 - Developmental Assessment II  
EDUC 3175 - Secondary Curriculum and Methods/Social Studies  
EDUC 3195 - Instructional Strategies for Content Area Reading  
EDUC 3210 - Teaching English Language Learners  
EDUC 4735 - Student Teaching at the Elementary/Intermediate Level  
EDUC 4745 - Student Teaching at the Secondary Level  
EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
SPEC 2110 - Characteristics and Needs of Diverse Learners  
SPEC 3110 - Classroom Management  
SPEC 3115 - Differentiated Instruction for Diverse Learners

**Education Electives:** Sufficient EDUC/SPEC/ECE courses to ensure a minimum of 30 credits earned at Keystone College for graduation.

Any student with a bachelor's degree who is interested in obtaining certification in social studies education at Keystone College must complete a minimum of 30 credits at the College in order to be recommended to the Pennsylvania Department of Education for certification. If any of the required courses have been accepted by Keystone College as transfer credits into this program, a list of acceptable alternative courses will be provided to the student in order to ensure completion of the 30-credit minimum. A minimum of 150 hours of classroom field experiences are required prior to student teaching. Evidence of previously completed field experiences does not count toward the 150 hours required.

## **Education Credentials**

### **Child Development Associate Credential (CDA)**

Credits earned in this program may be transferred to the bachelors degree in early childhood education.

Keystone College offers the 12-credit CDA Program. The CDA is a nationally recognized credential administered by the National Council for Professional Recognition Program in Washington D.C. The credential requires the creation of a professional portfolio. The College offers instruction which meets the CDA requirements through the following coursework:

ECE 1110 - Introduction to Early Childhood Education  
ECE 2115 - Curriculum and Program Planning: Ages 3-8 Years  
EDUC 2130 - Child, Family and Community  
PSYC 2190 - Child Development I

### **Pennsylvania Director's Credential**

Credits earned in this program may be transferred to the bachelor degree programs in education.

Keystone College offers the nine-credit PA. Director's Credential program specified by the Pennsylvania Office of Child Development for individuals who assume director positions in licensed child care facilities in the Commonwealth of Pennsylvania. The credential details instructional competency outcomes that are achieved through participation in the following coursework:

ECE 3150 - Administration and Supervision of Schools for Young Children  
or EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
PSYC 4110 - Organizational Behavior  
PSYC 4115 - Supervision and Leadership

### **School Age Credential (SACC)**

School Age Credential (SACC) Credits earned in this program may be transferred to the bachelor degree programs in education.

Keystone College offers the nine-credit SACC credential which is administered by the Pennsylvania Key. The credential requires the creation of a professional portfolio. The College offers instruction which meets the SAC requirements through the following coursework.

ECE 3150 - Administration and Supervision of Schools for Young Children  
or EDUC 4910 - Seminar: Contemporary Research, Issues, and Ethics in Education  
EDUC 2130 - Child, Family, and Community  
PSYC 2195 - Child Development II

### **Early Childhood/Early Intervention Certificate:**

This program is designed to help individuals who lack specialized early intervention training but who currently work in early childhood or early intervention programs. Credits earned in this program may be transferred to the associate degree or B.S. degree programs in early childhood education. Prior to beginning the certificate sequence,

students are required to complete English 101. Students meeting all requirements receive a certificate in early intervention.

The following courses must be taken:

- ECE 1110 - Introduction to Early Childhood Education
- ECE 2110 - Curriculum Planning, Ages 0-3
- ECE 2115 - Curriculum Planning, Ages 3-8
- ECE 2180 - Early Childhood Education Seminar
- EDUC 2130 - Child, Family and Community
- EDUC 3215 - Integrating the Arts
- PSYC 2190 - Child Development I
- SPEC 2110 - Characteristics and Needs of Exceptional Learners
- SPEC 2115 - Special Education Processes and Procedures
- SPEC 2120 - Early Intervention and Transitions

## **Military Science - Air Force ROTC**

The Air Force Reserve Officer Training Corps (AFROTC) program at Wilkes University permits students to earn commissions as officers in the U.S. Air Force while pursuing a college degree. Students enroll in either the four-year or two-year program. Students with three years remaining until graduation may enroll concurrently in the freshman and sophomore Air and Space Studies courses and can complete the four-year program in three years; moreover, any interested student may call the detachment and query staff regarding additional programs available (570-408-4860).

### **Professional Development Program (PD) (Optional)**

The program allows both General Military Course (GMC) and Professional Officer Course (POC) members to visit a USAF base for up to three weeks during the summer (cadets attending Field Training are not eligible.) PD allows the cadet to “shadow” an active duty officer working in the student’s career interest (i.e., pilot, navigator, communications, intelligence, etc.) Transportation from the legal residence of the cadet to the PD base (and return), food, lodging, and medical and dental care during the visit are provided by the Air Force. The participating cadet is also provided a nominal stipend during the program.

### **Scholarships**

AFROTC also offers full and partial tuition scholarships for which qualified students may compete, if they enroll in AFROTC. All scholarship awards are based on individual merit, regardless of financial need, with most scholarship recipients determined by central selection boards. For more information, please contact the detachment.

### **Air and Space Studies Courses:**

#### **General Military Course (GMC)**

- AS 101 - Foundations of the USAF I
- AS 102 - Foundations of the USAF II
- AS 103/104 - Leadership Laboratory
- AS 201 - Evolution of USAF Air and Space Power I
- AS 202 - Evolution of USAF Air and Space Power II
- AS 203/204 - Leadership Laboratory

#### **Professional Officer Course (POC)**

- AS 301 - Air Force Leadership Studies I
- AS 302 - Air Force Leadership Studies II
- AS 303/304 - Leadership Laboratory
- AS 401 - National Security Affairs/Preparation for Active Duty I
- AS 402 - National Security Affairs/Preparation for Active Duty II
- AS 403/404 - Leadership Laboratory

### **Commissioning**

Students who satisfactorily complete the POC curriculum requirements are commissioned as Second Lieutenants in the U.S. Air Force and will serve on active duty in a career specialty they have chosen, consistent with USAF needs.

Qualified students may compete for duty as pilots, navigators, engineers, missile or space operations officers, nurses, engineers, meteorologists, computer analysts, lawyers, security forces or any of a number of other career fields.

## **Military Science - Army ROTC**

Keystone College offers students the opportunity to participate in Army ROTC through a partnership with the North East Pennsylvania Army Reserve Officer Training Corps Battalion. The primary objective of the Reserve Officer Training Program is to develop leadership capabilities in students and to train future officers for active ARMY, US Army Reserve, Army National Guard and leaders for the country.

The NEPA Army ROTC Battalion continually ranks in the top 10% of all ROTC programs nationwide and was ranked third in the Eastern United States in 2006. The NEPA Battalion has recently celebrated fifty years of commissioning outstanding officers for the Army.

The Army ROTC program can be tailored to fit any student's schedule, particularly in the freshman and sophomore years. Military Science instruction is offered at The University of Scranton with two, three, and four year programs leading to a commission as an officer in one of the three components of the United States Army.

Any Keystone College student may participate in any basic Army ROTC course without cost or obligation for the first two years.

### **Uniforms and Supplies**

The Military Science Department provides all uniforms, equipment, and textbooks required for the classes.

### **Scholarships**

There are significant scholarship opportunities for ROTC students. Scholarships could be used to pay for tuition, books, and spending money. Two, three and four-year Army scholarships as well as special National Guard and Army Reserve scholarships are available for students enrolled full-time at Keystone College. Army ROTC Scholarship Candidate selection is merit based. Scholarship recipients receive full tuition and fees, in addition to \$900 per year for books and a monthly stipend ranging from \$3,000 to \$5,000 per year for each year the scholarship is awarded. For additional information, or if you have specific questions about the Army ROTC, contact the Military Science department at the University of Scranton at 1-888-SCRANTON, (570) 941-7457, or e-mail [rotc@scranton.edu](mailto:rotc@scranton.edu).

### **Curriculum Courses:**

PHED 138 - Physical Fitness Training  
MIL 101/102 - Concepts of Leadership I and II  
MIL 201/202 - Dynamics of Leadership I and II  
MIL 301/302 - Basic Military Leadership I and II  
MIL 401/402 - Advanced Military Leadership I and II  
MIL 111L/112L/131L/132L - Leadership Application Laboratory

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# Minors

A minor consists of a minimum of 18 credits in a particular discipline and requires one 1000-level course and two 3000- and/or 4000-level courses. The remainder may be chosen from current discipline course offerings at any level and are determined by the student and academic adviser. Students must declare their minors prior to registering for GRAD 101 or GRAD 201.

The following minors are available as of this catalog printing. Consult curriculum coordinators to determine if additional minors are available.

## Accounting

ACCT 1125 - Managerial Accounting  
ACCT 1155 - Financial Accounting  
ACCT 2110 - Intermediate Accounting I  
ACCT 3110 - Accounting Information Systems  
Accounting Electives - Two additional 3000- or 4000-level ACCT courses

(Students in a BMT curriculum who choose to minor within the division offerings will need at least 6 credits of coursework at the 2000- or 3000-level that are not used in the major curricula. These courses will be selected from the minor area.)

## Art

ART 1120 - Drawing and Composition I  
One, 1000-level Studio courses\*  
One, 2000-level Studio courses\*  
Two, 3000-and/or 4000-level Studio courses\*  
Any additional Art Studio course\*  
\*ARHI 1001, 1002 and 3001, and ARTH 3005, 3085, and 4085, do not count as studio electives

## Biology

BIOL 1125 - General Biology I  
BIOL 1130 - General Biology II  
BIOL 4810 - Biology Seminar and Research  
AND choose one 2000-level Biology excluding  
BIOL 2145 - Bioethics  
AND choose one 3000-level Biology class.  
Total credits must equal or exceed 18 credits.

## Business

ACCT 1125 - Managerial Accounting  
or ACCT 1155 - Financial Accounting  
or ACCT 1160 - Survey of Accounting  
BUSN 1110 - Introduction to Business  
or SRM 1110 - Introduction to Sport and Recreation Management  
BUSN 2110 - Principles of Management  
BUSN 2115 - Principles of Marketing  
3000-level Elective - Choose any two BUSN, ECON, or LEAD courses

(Students in a BMT curriculum who choose to minor within the division offerings will need at least six credits of coursework at the 2000- or 3000-level that are not used in the major curricula. These courses will be selected from the minor area.)

## Chemistry

CHEM 1120 - General Chemistry I  
CHEM 1125 - General Chemistry II  
CHEM 2110 - Organic Chemistry I  
or CHEM 2120 - Environmental Chemistry  
AND choose two of the following:  
BIOL 3120 - Biochemistry  
CHEM 3110 - Forensic Chemistry  
CHEM 3115 - Instrumental Analysis

## Communications

COMM 1115 - Interpersonal Communication  
COMM 1120 - Mass Communication  
Writing Elective - Choose one:  
BUSN 2130 - Written Communication  
ENGL 3010-3014 - Special Topics in Creative Writing  
ENGL 3120 - Technical Writing

3000- or 4000-level Literature course - Depending on desired work skills, students may choose from:

- ENGL 3115 - Children's Literature
- ENGL 3015-3023 - Great Themes in Literature
- ENGL 3024-3027 - Advanced Study in Literature

3000- or 4000-level Communication course - students may choose from:

- COMM 3010-3030 - Special Topics in Communication
- COMM 3110 - Communication Theory
- COMM 3135 - Small Group Communication
- COMM 4010 - Critical Issues in Communication
- COMM 4115 - Gender and Communication

Additional Elective - Any ENGL, COMM, FILM, or THEA course, excluding core courses.  
(Students are responsible for meeting prerequisites, or obtaining instructor consent.)

### **Criminal Justice**

CJ 1115 - Introduction to Criminal Justice  
Two Criminal Justice courses at the 1000- or 2000-level  
Choose any three 3000- and/or 4000-level CJ courses  
Possible substitutions for one CJ elective:  
PSYC 3130 - Psychopathology  
PSYC 3145 - Forensic Psychology  
PSYC 3150 - Psychology of Trauma

### **Criminal Justice Investigation**

BIOL 1135 - Introduction to Forensic Science I  
BIOL 2140 - Introduction to Forensic Science II  
CJ 3000-4000 - Curricular Elective  
CJ 3120 - Criminal Investigation  
CJ 4110 - Criminalistics  
or CJ 3170 - Criminal Profiling  
PSYC 3145 - Forensic Psychology

### **Digital Media**

COMM 1120 - Mass Communication  
or FILM 1110 - Introduction to Film  
JOUR 3110 - Broadcast Writing  
or ENGL 3010 - Special Topics in Creative Writing:  
Screenwriting  
or ENGL 3011 - Special Topics in Creative Writing:  
Playwriting  
Four electives to be chosen from the following list:

COMM 2155 - Introduction to Radio Production  
COMM 2160 - Digital Media Production  
COMM 3013 - Special Topics in  
Communication: Directing the Digital Film  
COMM 3014 - Special Topics in  
Communication: Producing the Digital Film  
COMM 3015 - Special Topics in Communication:  
Advanced Digital Media Production  
COMM 3017 - Special Topics in Communication:  
Advanced Video Production  
COMM 3022 - Special Topics in Communication:  
Electronic Publishing  
COMM 3023 - Special Topics in Communication:  
Web Design for Multimedia  
COMM 3125 - Advanced Audio Production  
\*FILM 3005 - Special Topics in Film  
\*Students may use only one (1) FILM 3005 topic to  
satisfy the minor requirement.

### **Event Planning**

HOSP 1135 - Introduction to Hotel and  
Restaurant Management  
COMM 2145 - Public Relations  
HOSP 2130 - Meeting and Convention Management  
SRM 4120 - Resort Recreation

3000-level Electives - Choose any two courses from  
the list below (one must be from a 3000-4000 level):

ACCT 2145 - Individual and Business Taxes  
BUSN 2115 - Marketing  
BUSN 3110 - Personal Finance  
BUSN 3135- Advertising and Sales Promotion  
BUSN 3140 - Sales and Relationship Building  
BUSN 3300 - Business Ethics  
BUSN 4150 - Consumer Behavior  
BUSN 4155 - Strategic Marketing  
COMM 1120 - Mass Communication  
COMM 2110 - Professional Speech  
HRM 3115 - Health, Safety, Security  
IT 1130 - Web Programming I  
LEAD 2110 - Team Building  
LEAD 4110 - Leadership and Strategies  
PSYC 3115 - Social Psychology  
SOC 3110 - Sociology of Diversity

SRM 2110 - Program Development and Planning  
SRM 3115 - Legal Issues in Sport  
SRM 3120 - Sport Marketing  
SRM 3130 - Sport Tourism  
SRM 3140 - Commercial Recreation  
SRM 4130 - Municipal and Non-Profit Leisure Services

## **Environmental Science**

ENVT 2110 - GIS/GPS  
ENVT 2125 - Environmental Policy and Management  
ENVT 3105 - Soils Science  
ENVT 3135 - Hydrology  
GEOL 2110 - Physical Geology  
PHSC 1145- Global Change

## **Forensic Biology**

BIOL 1125 - General Biology I  
BIOL 1135 - Introduction to Forensic Science I  
BIOL 2140 - Introduction to Forensic Science II  
BIOL 3140 - Forensic Anthropology  
MATH 3160 - Statistics for the Sciences

## **Finance**

ACCT 1125 - Managerial Accounting  
ACCT 2145 - Individual and Business Taxes  
BUSN 3110 - Personal Finance  
    or ECON 3110 - Money and Banking  
BUSN 3115 - Financial Management  
BUSN 3160 - Investments  
BUSN 4130 - Advanced Financial Management

(Students in a BMT curriculum who choose to minor within the division offerings will need at least six credits of additional coursework at the 2000- or 3000-level that are not used in the major curricula.)

## **Homeland Security**

CJ 3130 - Homeland Security  
CJ 3165 - Terrorism  
POSC 3130 - Public Policy  
PSYC 3150 - Psychology of Trauma

Also students must choose two of the following:

PBHL 1110 - Public Health  
    or PBHL 3110 - Global Health  
    or POSC 3110 - Constitutional/Criminal Law  
    or CJ 3120 - Criminal Investigation

## **Human Resource Management**

BUSN 3300 - Business Ethics  
HRM 1110 - Introduction to Human Resource Management  
HRM 2110 - Employment Law  
HRM Electives - Choose any three HRM courses, two of which must be 3000-level or higher.

(Students in a BMT curriculum who choose to minor within the division offerings will need at least six credits of additional coursework at the 2000- or 3000-level that are not used in the major curricula. These courses will be selected from the minor area.)

## **Information Technology**

IT 1130 - Web Programming I  
IT 1135 - Web Programming II  
IT 2110 - Intermediate PC Office Applications  
    or IT 2120 - Database Management Systems II  
One additional IT elective at any level  
Two IT electives at the 3000-level or higher.

(Students in a BMT curriculum who choose to minor within the division offerings will need at least six credits of additional coursework at the 2000- or 3000-level that are not used in the major curricula.)

## **Integrated Marketing Communications**

BUSN 3135 - Advertising and Sales Promotion  
BUSN 4155 - Strategic Marketing  
BUSN 2115 - Marketing  
COMM 2145 - Public Relations

Based on interest, the student is able to select an emphasis in various areas. These areas of emphasis and the possible course choices follow.

Elective (choose an emphasis OR a combination of any two courses from below:) Minimum credit hours required for minor: 18

*Advertising Digital Media Production:*

COMM 2160 - Digital Media Production  
COMM 3015 - Special Topics in Communication:  
    Advanced Digital Media Production

*Analytical Marketing Emphasis:*

BUSN 4140 - Marketing Research Methods  
BUSN 4155 - Strategic Marketing

*Business Marketing Emphasis:*

BUSN 4150 - Consumer Behavior  
BUSN 3140 - Sales and Relationship Building

*Communication Emphasis:*

COMM 3110 - Communication Theory  
JOUR 3110 - Broadcast Writing

*E-Commerce Marketing Emphasis:*

BUSN 3145 - E-Marketing  
COMM 3023 - Special Topics in Communication:  
Web Design/Multimedia

*Graphic Design Emphasis:*

ART 2135 - Fundamentals of Graphic Design  
ART 3135 - Graphic Design II

*Product and Non-Profit Marketing Emphasis:*

ENGL 3120 - Technical Writing  
BUSN 4155 - Strategic Marketing

*Statistics Emphasis:*

MATH 2115 - Statistics  
COMM 3115 - Communication Research Skills

## **Leadership**

LEAD 1110 - Foundations of Leadership  
BUSN 2110 - Principles of Management  
BUSN/PSYC 4115 - Organizational Behavior  
LEAD 4110 - Leadership Strategies  
LEAD 4910 - Dynamics of Leadership Application

Students in the minor must choose one of the following electives:

LEAD 2110 - Team Building  
LEAD 3110 - Profiles in Leadership  
LEAD 3115 - Civic Responsibility  
SRM 3135 - Facilitation of Leadership Activities

(Students in a BMT curriculum who choose to minor within the division offerings will need at least six credits of additional coursework at the 2000- or 3000-level that are not used in the major curricula.)

## **Management**

ACCT 1125 - Managerial Accounting  
BUSN 2110 - Principles of Management  
HRM 1110 - Introduction HRM

And any other three courses from the list below (must include at least two 3000-4000 level courses)

BUSN 3115 - Financial Management  
BUSN 4115 - Organizational Behavior  
BUSN 4130 - Advanced Financial Management  
BUSN 4145 - Strategic Management  
HRM 2110 - Employment Law  
HRM 3120 - Selection and Placement  
LEAD 4110 - Leadership Strategies  
LEAD 4910 - Dynamics of Leadership Application  
SRM 2115 - Facilities Management

(Students in the BMT curriculum who choose to minor within the division offerings will need at least 6 credits of coursework at the 2000 or 3000 level that are not used in the major curricula. These courses will be selected from the minor area.)

## **Marketing**

BUSN 2115 - Marketing  
BUSN 4140 - Marketing Research Methods  
or MATH 3120 - Statistics and Research  
BUSN 4150 - Consumer Behavior  
BUSN 4155 - Strategic Marketing

Students in the minor must also choose two of the following electives:

BUSN 3135 - Advertising and Sales Promotion  
BUSN 3140 - Sales and Relationship Building  
BUSN 3145 - E-Marketing  
COMM 2145 - Public Relations  
SRM 3120 - Marketing and Sport Promotion

Students in the BMT curriculum who choose to minor within the division offerings will need at least 6 credits of coursework at the 2000 or 3000 level that are not used in the major curricula. These courses will be selected from the minor area.

## **Mathematics**

One 1000-level course to be chosen from:  
MATH 1135 - Trigonometry

MATH 1140 - College Mathematics  
MATH 1150 - College Mathematics II  
MATH 1155 – Precalculus

MATH 2150 - Calculus I

MATH 2155 - Calculus II

MATH 3120 - Statistics and Research

One course from

MATH 2115 - Statistics and

MATH 3155 - Probability

Additional 3000/4000-level MATH course

## Political Science

POSC 1110 - American National Government

HIST 1110 - The Making of the Modern World

or HIST 1130 - United States History I

or HIST 1135 - United States History II

Four Electives - Choose from: (Two must be  
3000-level or higher)

POSC 2110 - State and Local Government

POSC 2130 - International Relations

POSC 3110 - Constitutional/Criminal Law

POSC 3115/HIST 3110 - Civil Rights in America

POSC 3120 - Comparative Government

POSC 3125/HIST 3115 - U.S. History Since 1945

POSC 3130 - Public Policy

SOSC 4710 - Internship in the Social Sciences

Possible substitutions for one elective:

ACCT 3145 - Governmental Accounting

BUSN 3150 - Business Law

CJ 3145 - Administration of Justice

ENVT 2125 - Environmental Policy and Management

GEOG 1110 - Introduction to Geography

GEOG 3110 - Cultural Geography

## Project Management

BUSN 2200 - Fundamentals of Project  
Management

BUSN 3155 - Project Risk Management

BUSN 4115 - Organizational Behavior

BUSN 4160 - Advanced Project Management

Choose two from the following courses:

ACCT 2130 - Cost Accounting

HRM 1110 - Introduction to Human  
Resource Management

IT 2140 - Spreadsheets and Databases

IT 4220 - Systems Analysis and Design

LEAD 2110 - Team Building

ENGL 3120 - Technical Writing

## Psychology

PSYC 1110 - General Psychology

PSYC Electives - 3 from the Psychology discipline at  
any level

Two PSYC electives at the 3000-4000 level

## Public Health

Students must ensure a minimum of two 3000-level  
courses are completed for the minor.

Required Courses:

PBHL 1001 - Public Health

PBHL 2110 - Epidemiology

PBHL 3110 - Global Health

And one of the following courses:

MATH 2115 - Statistics

MATH 2120 - Statistics for the Social Sciences

Courses must be from at least two different disciplines  
and are not used to satisfy major requirements.

Choose one course from the health electives.

Health Electives:

BIOL 1001 - Newsworthy Topics in Biology

BIOL 1003 - Human Health Issues

BIOL 1110 - Anatomy and Physiology I

BIOL 1115 - Anatomy and Physiology II

BIOL 1125 - General Biology I

BIOL 1130 - General Biology II

BIOL 2001 - Biological Dimensions of Human  
Sexuality

BIOL 2003 - Lifecycle Nutrition

BIOL 2002 - Nutrition

BIOL 2110 - Pathophysiology

BIOL 2115 - Microbiology

BIOL 3160 - Immunology

PSYC 3135 - Psychology of Disability

PSYC 3150 - Psychology of Trauma

Choose one course from the related electives.

Related Electives:

ANTH 1110 - Introduction to Cultural Anthropology

ANTH 2115 - Peoples and Cultures of the  
Middle East

ANTH 2120 - Peoples and Cultures of Asia  
 ANTH/BIOLOG 2130 - Biological Anthropology  
 ARTH 3085 - Art Therapy  
 BIOL 1140 - Medical Terminology  
 BIOL 2145 - Bioethics  
 CHEM 1120 - General Chemistry I  
 CHEM 1125 - General Chemistry II  
 COMM 4115 - Gender and Communication  
 ECON 2115 - Principles of Economics II  
 ENVT 2120 - Environmental Ethics  
 ENVT 2125 - Environmental Policy and Management  
 GEOL 2115 - Earth Systems History  
 HRM 4110 - Organizational Development  
 MATH 3120 - Statistics and Research  
 MATH 3160 - Statistics for Science  
 PHSC 1145 - Global Change  
 POSC 2130 - International Relations  
 POSC 3130 - Public Policy  
 PSYC 2215 - Drugs and Behavior  
 PSYC 2220 - Physiological Psychology  
 PSYC 3125 - Research Methods for the Social Sciences  
 SOCI 3110 - Sociology of Diversity  
 SPAN 1110 - Elementary Spanish I  
 SPAN 1115 - Elementary Spanish II  
 SPAN 2110 - Intermediate Spanish I  
 SPAN 2115 - Intermediate Spanish II

### **Sociology**

SOCI 1110 - Introduction to Sociology  
 Choose two of the following:  
 ANTH 1110 - Introduction to Cultural Anthropology  
 SOCI 2120 - Social Problems  
 SOCI 2125 - The Family  
 Choose two of the following:  
 GEOG 3110 - Cultural Geography  
 SOCI 3110 - Sociology of Diversity  
 SOCI 3120 - Social Deviance  
 Any other SOCI or ANTH course

### **Sport and Recreation Management**

SRM 1110 - Introduction to Sport and Recreation Management\*  
 SRM 2110 - Program Development and Planning  
 SRM 2115 - Facilities Management  
 SRM 3115 - Legal Issues in Sport

Two electives - choose from (one must be at 3000-level):  
 SRM 2120 - Social Issues in Sport  
 SRM 2125 - Economics in Sport and Recreation  
 SRM 3120 - Sport Marketing and Promotions  
 SRM 3125 - Principles of Coaching  
 SRM 3130 - Sport Tourism  
 SRM 3135 - Facilitation of Leadership Activities  
 SRM 3140 - Commercial Recreation  
 SRM 3145 - Applied Learning Theories for Movement and Play  
 SRM 3150 - Outdoor Recreation  
 SRM 3300 - Sport Ethics  
 SRM 4110 - Governance in Sports and Athletics  
 SRM 4120 - Resort Recreation  
 SRM 4130 - Municipal and Non-Profit Leisure Services  
 SRM 4135 - Sport Business Practices

\*If a student has taken BUSN 1110 or HOSP 1135, they are exempt from taking SRM 1110. However, the student must then take an additional elective to total 18 credits of SRM courses.

### **Theatre**

ENGL 2165 - Introduction to Dramatic Literature  
 THEA 1120 - Introduction to Theatre  
 THEA 1125 - Acting I: The Basics of Performance  
 THEA 2125 - Acting II: Techniques and Styles  
 And any two of the following:  
 ENGL 3011 - Special Topics in Creative Writing: Playwriting  
 THEA 2120 - Survey of Technical Theatre  
 THEA 3110 - Directing for the Stage

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## **Course Descriptions**

The number of lecture, discussion, practicum, and laboratory hours listed for each course in this section of the catalog is the number scheduled each week during the fall and spring semesters. These hours are adjusted accordingly for terms of shorter length, such as summer sessions and the Weekender schedule, to ensure the amount of instruction given to students in any course remains constant regardless of the term in which it is offered. The number of credits for each course is also constant for all terms. Not every course listed in the catalog is offered every year. The terms indicated are those in which a course is usually offered. Some courses entail special services, supplies, or require updating of software for which fees are assessed. These fees vary from course to course and, where applicable, are indicated in the following course descriptions.

## Accounting

### **ACCT 1125 Managerial Accounting:**

Introduces accounting concepts for planning, control, motivation, internal reporting, and evaluation. Demonstrates product cost determination procedures, analysis of cost behavior, budgeting, decision-making and control. *Fall and Spring, 3 hours lecture and laboratory, 3 credits.*

**ACCT 1155 Financial Accounting:** Introduces the basic concepts and principles of financial accounting including journal entries, financial statements preparation, notes receivable, inventory methods, depreciation methods, payroll and taxes, organization and operations of a corporation, accounting for capital stock and bonds, and financial data analysis. This course is intended for accounting and business administration majors only. *Fall and Spring, 3 hours lecture and 3-hour laboratory, 4 credits.*

**ACCT 1160 Survey of Accounting:** This course is designed as an overview of accounting. Students will review financial statements in the context of an overview of financial condition of business. Students will also learn how accounting impacts all facets of business. This course is not intended for accounting and business administration majors. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

### **ACCT 2110 Intermediate Accounting I:**

Studies intermediate problems involving more complex business situations than those found in financial accounting. Students become familiar with principles relating to cash, receivables, inventories, detailed analysis of balance sheet and accounts, analytical processes, and miscellaneous statements. Material covered has a high expectancy of coverage on the CPA/CMA exam. Prerequisites: ACCT 1125 and ACCT 1155 with grades of "C" or higher. *Fall, 3 hours lecture and laboratory, 3 credits.*

### **ACCT 2115 Intermediate Accounting II:**

Emphasizes problems relating to classification and valuation of tangible and intangible assets and current liabilities; accounting for investment funds and reserves; and depreciation. Material covered has a high expectancy of coverage on the CPA/CMA exam. Prerequisite: ACCT 2110 with a grade of "C" or higher. *Spring, 3 hours lecture and laboratory, 3 credits.*

**ACCT 2130 Cost Accounting:** Introduces the student to the manufacturing concern and the problems involved with control over the cost of goods manufactured. Assists management with accumulation and review of past cost to be used in future planning and decision making. Prerequisite: ACCT 1125 with grade of "C" or higher. *Spring, 3 hours lecture and problem solving, 3 credits.*

### **ACCT 2140 Intermediate Accounting III:**

Continues the material learned in ACCT 202 with emphasis on annual reports, dilutive securities, pensions and post-retirement benefits, leases, and financial analysis. Material covered has a high expectancy of coverage on the CPA/CMA exam. Prerequisite: ACCT 2115 with a grade of "C" or higher. *Fall, 3 hours lecture and laboratory, 3 credits.*

### **ACCT 2145 Individual and Business Taxes:**

Introduces the student to the IRS code, covering the basic 1040 and all the forms essential to its completion in detail. This course also covers the Tax Code as it relates to partnerships and corporations. The course uses basic commercial tax preparation software for preparation of tax returns. *Fall, \$30 fee, 4 hours lecture and computer presentations, 3 credits.*

### **ACCT 3110 Accounting Information**

**Systems I:** Provides an introduction to accounting information systems from an organizational perspective. Concentration will be placed on the cycle of transaction processing utilizing real-world business scenarios with

accounting software. Emphasis will be placed on collecting, accumulating, and summarizing data to make information available to managers for analysis, decision making, forecasting, and business planning. *Fall, 3 hours lecture and laboratory, 3 credits.*

**ACCT 3115 Auditing:** Explores the legal and ethical responsibilities of an auditor, the methods and procedures used in gathering evidential material, and the auditor's report. Teaches GAAP, GAAS, and FASB procedures and how to apply them to client audits. Prerequisite: ACCT 2115 with a grade of "C" or higher. *Fall, 3 hours lecture and discussion, 3 credits.*

**ACCT 3120 Accounting Information Systems II:** Continues the concepts introduced in Accounting Information Systems I and expands the focus with an emphasis on a systems perspective including hardware and software assessment analysis, internal control procedures, systems flowcharting, design methodologies, and security issues. A case study utilizing a business simulation exercise will be used to extend technical and analytical skills pertaining to accounting information systems. Prerequisite: ACCT 3110 with a grade of "C" or higher. *Spring, 3 hours lecture and laboratory, 3 credits.*

**ACCT 3125 Accounting Policy and Professional Responsibility:** Discusses GAAP process and the functions of the FASB and SEC along with ethical issues facing the profession. Employs case studies as a pedagogical tool. This is an online course. *Spring, 3 hours lecture, discussion, and computer presentations, 3 credits.*

**ACCT 3130 Advanced Cost Accounting:** Continues the concepts introduced in Cost Accounting with a concentration of material from real-world cases. Students will be able to use critical thinking skills to develop a plan of action for different types of businesses and employ decision-making techniques. Prerequisite:

ACCT 2130 with a grade of "C" or better. *Fall, 3 hours lecture and laboratory, 3 credits.*

**ACCT 4110 Advanced Accounting:** Serves as a review of all areas covered in the accounting curriculum. Focuses on consolidated financial statements and employs research methods that will be necessary in the field. Senior standing or consent of curriculum coordinator. Fee: \$80 for membership in PICPA and IMA required. Prerequisites: ACCT 2140 and ACCT 3115 with a grade of "C" or higher. *Fall, \$80 fee, 3 hours lecture and discussion, 3 credits.*

**ACCT 4170 Accounting Internship:** Emphasizes a work experience with a recognized accounting firm or related accounting experience. Places the student in a work environment where he/she can utilize the classroom knowledge and experience a true working situation. Prerequisite: consultation with curriculum coordinator during junior year. Selection of work experience determined by academic background and interviews. *3-6 credits.*

**ACCT 4910 Senior Seminar/Capstone:** Designed to provide an opportunity for students to synthesize previous learning and to demonstrate evidence that they have the knowledge required for the major. Portfolio project is completed in this course. *Spring, 3 hours lecture and discussion, 3 credits.*

## **Anthropology**

**ANTH 1110 Introduction to Cultural Anthropology:** Explores humans' cultural and social organization including economics, family and kinship, politics, religion and ritual, and the arts. Examines the origins of human culture and the processes of cultural change. *Spring, 3 hours lecture and discussion, 3 credits.*

**ANTH 2110 Peoples and Cultures of Africa:**

Studies the peoples and cultures of Africa with an emphasis on cultural and social organizations, subsistence patterns, family and kinship, religions and rituals, political and economic organizations, and the arts. Prerequisites: ANTH 1110 or SOCI 1110 or HIST 1110 or consent of the instructor. *Fall and Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**ANTH 2115 Peoples and Cultures of the**

**Middle East:** Studies the peoples and cultures of the Middle East with an emphasis on cultural and social organizations, subsistence patterns, family and kinship, religions and rituals, political and economic organizations, and the arts. Prerequisites: ANTH 1110 or SOCI 1110 or HIST 1110 or consent of the instructor. *Fall and Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**ANTH 2120 Peoples and Cultures of Asia:**

Studies the peoples and cultures of Asia with an emphasis on cultural and social organizations, subsistence patterns, family and kinship, religions and rituals, political and economic organizations, and the arts. Prerequisites: ANTH 1110 or SOCI 1110 or HIST 1110 or consent of the instructor. *Fall and Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**ANTH/BIOL 2130 Biological**

**Anthropology:** Covers topics on human evolution and modern human variation, focusing on humanity's biological roots and modern appearance. This is a science course based on evolutionary biology. Emphasizes evolutionary theory, genetic and evolutionary mechanisms, polygenic inheritance, selection, mutation, human population genetics, human's place in the animal kingdom, human evolution and modern human diversity. *Spring, 3 hours lecture and discussion, 3 credits.*

**Art**

**ART 1110 Color Theory:** An in-depth experiential study of color principles, concepts and the visual effects of color through observation and creative responses. Studio problems emphasize seeing and mixing colors, making specific color decisions, and understanding subjective and objective color applications. *Fall, \$30 fee, 6 hours practicum, 3 credits.*

**ART 1115 Introduction to Studio Art:** Focuses on basic art materials and studio procedure - both two- and three-dimensional. A variety of basic problems in two-dimensional disciplines such as drawing, design, printmaking or photography, and three-dimensional disciplines such as ceramics and other sculptural media. Emphasis on individual creative perception and growth in the understanding of the elements and principles of design as they relate to the art process. This course is a non-major course. *Fall/Spring, \$50 fee, 6 hours practicum, 3 credits.*

**ART 1120 Drawing and Composition I:** Introduces visual perception and artistic interpretation. Emphasizes the mastery of a variety of drawing techniques to depict objects in space. *Fall, \$80 fee, 6 hours practicum, 3 credits.*

**ART 1125 Figure Drawing I:** Introduces basic anatomy through studies of the skeleton and extensive drawing of the live model. Basic drawing media are employed, with emphasis on perception and technique development. *Spring, \$155 fee, 6 hours practicum, 3 credits.*

**ART 1130 Two-Dimensional Design:** Introduces and explores the elements and principles of visual organization. Emphasizes effective symbolic communication and the development of well-crafted art. *Fall, \$40 fee, 6 hours practicum, 3 credits.*

**ART 1135 Three-Dimensional Design:** Introduces concepts of three-dimensional design and the basic materials and tools involved. Emphasis on line, plane, mass, structures, and sensitivity to materials. Problems range from the theoretical to the practical. *Spring, \$150 fee, 6 hours practicum, 3 credits.*

**ART 1140 Portfolio Preparation:** Presents practical information for prospective transfer students majoring in art. Preparation of art work for portfolio or exhibition. Open to art majors only. *Fall, 4 hours lecture, 0.5 credits.*

**ART 1145 Electronic Media in the Arts:** Introduces computer platforms, operating systems, networking, and software applications for visual art presentation. Emphasizes digital media applications for artists. *Spring, \$100 fee, 6 hours practicum, 3 credits.*

**ART 2115 Drawing and Composition II:** Further exploration of the compositional elements of drawing and the use of spatial systems through more advanced techniques and media. Emphasis on the development of technical skill and creative perception and interpretation. Prerequisite: ART 1120 or consent of the instructor. *Fall, \$80 fee, 6 hours practicum, 3 credits.*

**ART 2125 Figure Drawing II:** Continued study of human anatomy and the further development of technical drawing skills. Emphasis is on drawing the model within the environment. Prerequisite: ART 1125 or consent of the instructor. *Spring, \$155 fee, 6 hours practicum, 3 credits.*

**ART 2135 Fundamentals of Graphic Design:** Introduces the graphic design field and the process for effectively communicating through resonant type and image combinations. Emphasizes theoretical and technical requirements of design field. Prerequisite: ART 1145 or consent of instructor. *Fall or Spring, \$100 fee, 6 hours practicum, 3 credits.*

**ART 2140 Fundamentals of Crafts:** Introduces basic information in one of the following media: wood, metal (jewelry option), fiber, or glass. Creative and appropriate design for the medium, the mastery of basic tools and techniques, and basic craftsmanship. (Medium will vary according to student interest and faculty availability.) *Fall and Spring, \$150 fee, 6 hours practicum, 3 credits.*

**ART 2145 Fundamentals of Ceramics:** Presents the plastic abilities of clay, the techniques of hand-building, throwing, glazing, and firing as related to both traditional and contemporary ceramics. *Fall and Spring, \$250 fee, 6 hours practicum, 3 credits.*

**ART 2155 Fundamentals of Glass:** Introduces the basic techniques of glass forming focusing on blowing, kiln casting, kiln forming, cold working and studio safety and operations. Students will work individually and in groups as they explore the glass process. *Fall and Spring, \$250 fee, 6 hours practicum, 3 credits.*

**ART 2160 Fundamentals of Photography:** Introduces the topics of camera and film use, composition, natural and artificial light sources, film development, enlarging and printing with 35mm black and white materials. Students are also exposed to a diverse range of historically significant photographic work. *Fall and Spring, \$100 fee, 6 hours practicum, 3 credits.*

**ART 2163 Digital Photography:** Explores digital photography including digital capture using digital single lens reflex cameras, processing images using Adobe Photoshop CS6, digital output, and film scanning. Exposure, focal length, ISO, color management, and digital darkroom techniques will be covered. Through structured assignments, students will learn to photograph various types of subject matter. Photo history and contemporary photography will be included in class discussions and lectures. *Spring, \$150.00 fee, 6 hours practicum, 3 credits.*

**ART 2165 Field Study in Art History/Global Cultural Studies:** Features a study tour to a foreign country or countries. Students must participate in preparatory workshops, the tour experience, and post-tour workshops. An in-depth research project is required. Prerequisites: ENGL 1110 and consent of instructor. ART 1001/1002 recommended, but not required. Cost of the trip is additional. *Spring and Summer, 3 credits.*

**ART 2175 Fundamentals of Sculpture:** Introduces the basic concepts of sculpture. Techniques of addition, subtraction, manipulation, and substitution are introduced. Emphasis on personal aesthetics and craftsmanship as it relates to the tools and materials used in mold-making, carving, metal casting, mixed media, fabrication, and welding. *Fall, \$150 fee, 6 hours practicum, 3 credits.*

**ART 2185 Fundamentals of Painting:** Explores basic painting materials and surfaces, as well as fundamental painting approaches and techniques. Subjects may include, but are not limited to, still life, portraiture, and the human figure. Prerequisite: ART 1120 or consent of the instructor. *Fall or Spring, \$2185 fee, 6 hours practicum, 3 credits.*

**ART 2190 Fundamentals of Printmaking:** Presents materials and processes involved in such printmaking techniques as drypoint etching, wood and lino-cut, mixed media, and serigraphy. Emphasis is on understanding of traditional and contemporary approaches to printmaking. *Fall and Spring, \$125 fee, 6 hours practicum, 3 credits.*

**ART 3010-3030 Special Topics in Art:** Focuses on the study of a specific area within an artistic discipline and presents processes and techniques relevant to that topic. Students complete a variety of projects dependent on the course content. Topics vary but include subjects like costume design, digital product design,

artistic anatomy, pastel painting, landscape painting, mixed media, and contemporary aesthetics to name a few. *Fall and Spring, \$150.00 fee, 6 hours practicum, 3 credits.*

**ART 3115 Digital Projects:** Explores digital project management including digital capture and processing, output, and scanning techniques. Students produce both printed versions and digital portfolios of their images. The course is suitable for art students from all art concentrations. Students are expected to incorporate work and/or themes from their major area of concentration including three-dimensional applications. Prerequisite: 2000-level art studio course recommended or consent of the instructor. *Fall, \$150 fee, 6 hours practicum, 3 credits.*

**ART 3120 Book Arts I:** Analyzes the book as a means of conveying both visual and written information, as a sculptural object, and as a limited edition artist's book. Book structures such as an accordion, a concertina, a diamond fold, and a variety of sewn bindings will be demonstrated by the instructor and constructed by the students. Prerequisite: 2000-level art studio course recommended or consent of the instructor. *Spring, \$150 fee, 6 hours practicum, 3 credits.*

**ART 3125 Color Photography:** Explores the concepts and techniques of color photography. Students work with a range of color materials, with the emphasis on creating fine color prints from negatives. Photographers and their work will be covered with historical and cultural context. Prerequisite: ART 2160 or the consent of the instructor. *Spring, \$105 fee, 6 hours practicum, 3 credits.*

**ART 3130 Typography:** Explores and develops conceptual and technical skills necessary for type-based design. Type is studied as aesthetic form for effective communication in the context of graphic design. Prerequisite: ART 2135. *Fall or Spring, \$100 fee, 6 hours practicum, 3 credits.*

**ART 3135 Graphic Design II:** Develops intermediate skills in design, digital imaging, and typography applied to publication, brand identity, promotion, web, package, and sequential design. Prerequisite: ART 2135 or consent of instructor. *Spring, \$125 fee, 6 hours lecture/practicum/discussion, 3 credits.*

**ART 3145 Ceramics II:** Focuses on the development of advanced skills in one or more methods. Emphasis in clay structure and formulation, construction, glazing, and firing. Individual design and exploration of contemporary ceramic issues is emphasized. Prerequisite: ART 2145 or consent of the instructor. *Spring, \$150 fee, 6 hours practicum, 3 credits.*

**ART 3155 Intermediate Glass:** Emphasizes glass forming and decorating for students who have a basic understanding of glass and blowing techniques. Processes covered in the 3000-level hot glass course will introduce new techniques that build upon, well as reinforce, 2000-level skills. Students are expected to work on individualized assignments and to begin research strategies in the development of their work. Prerequisite: ART 2155. *Spring, \$250 fee, 6 hours practicum, 3 credits.*

**ART 3160 Photography II:** Emphasizes continued development of conceptual and technical skills relative to black and white photography. In addition to 35mm, students work with medium format and 4x5 cameras, studio lighting, and a range of alternative photographic approaches. Photographers and photographic work will be discussed within a historical and cultural context. Prerequisite: ART 2160 or consent of the instructor. *Spring, \$100 fee, 6 hours practicum, 3 credits.*

**ART 3170 Sculpture II:** Explores modeling along with continued studio exploration with emphasis placed on the integration of conceptual and technical skills to further the student's exploration of a personal aesthetic. Students should begin to focus on one of the following

media, modeling, carving, fabrication, welding, glass and mixed media. Prerequisite: ART 2175 or consent of instructor. *Fall and Spring, \$150 fee, 6 hours practicum, 3 credits.*

**ART 3180 Painting II:** Explores intermediate painting methods, technical issues, and aesthetic concerns. Both traditional and modern approaches to painting are studied in working from a variety of subjects. Prerequisite: ART 2185 or consent of the instructor. *Fall or Spring, \$100 fee, 6 hours practicum, 3 credits.*

**ART 3185 Printmaking II:** Focuses on broader in-depth study of specific materials, techniques, problems, concepts, and processes related to contemporary and traditional printmaking approaches and issues. Individual growth, knowledge, and development as an increased technical proficiency in printmaking skills are emphasized. Prerequisite: ART 2190. *Spring, \$125 fee, 6 hours practicum, 3 credits.*

**ART 4911 Advanced Graphic Design/Senior Seminar:** The first of four possible levels of this repeatable course, which advances student's knowledge and skills relevant to student's goals as a professional designer. Emphasizes development or completion of a professional design portfolio. Fosters an understanding of graphic design history, philosophy, ethics, and contemporary issues at this level. Prerequisite: ART 3135 or consent of instructor. *Spring and Fall, \$100 fee, 3 hours lecture/practicum/discussion.*

**ART 4912/4913/4914 Advanced Graphic Design/Senior Seminar:** Continues to advance both the knowledge and skills relevant to students' goals as professional designers. Emphasizes development or completion of a professional design portfolio. Fosters an understanding of graphic design history, philosophy, ethics, and contemporary issues at this level. Prerequisite: ART 4911 or consent of instructor. *Spring and Fall, \$100 fee, 3 hours lecture/practicum/discussion.*

**ART 4921 Advanced Ceramics/Senior Seminar:** This advanced ceramics course explores in-depth personal aesthetics as it relates to the ceramic arts. Considerations regarding construction methods, glaze formulation, and kiln operations are in integral part of this class, culminating with a senior exhibition. Prerequisite: ART 3145. *Fall, \$150 fee, 3-6 hours lecture/practicum/discussion, 3 credits.*

**ART 4922/4923/4924 Advanced Ceramics/Senior Seminar:** Explores in-depth personal aesthetics as it relates to the ceramic arts. Considerations regarding construction methods, glaze formulation, and kiln operations are in integral part of this class, culminating with a senior exhibition. Prerequisite: 4921. *Spring, \$150 fee, 3-6 hours lecture/practicum/discussion, 3 credits.*

**ART 4931 Advanced Glass/Senior Seminar:** Designed to give the student an extensive overview of the field of glass and its use as an art medium. Students develop an understanding of personal ideas and explore options related to the execution and presentation of finished works. Students apply the knowledge from one art experience to another and are required to keep a weekly journal of thoughts, ideas and sketches for future work. Students explore the multiple possibilities that this medium has to offer in order to create original, well-planned and well made glass objects according to their own personal ideas; the object being a cohesive body of excellent original works of art presented in a professional manner. Prerequisite: ART 3155. *Fall and Spring, \$250 fee, 3 hours practicum, 3 credits.*

**ART 4932/4933/4934 Advanced Glass/Senior Seminar:** Gives students an extensive overview of the field of glass and its use as an art medium. Students develop an understanding of personal ideas and explore options related to the execution and presentation of finished works. Students apply the knowledge from one art experience to another and are required to keep a weekly journal of thoughts, ideas and

sketches for future work. Students continue to explore the multiple possibilities that this medium has to offer in order to create original, well-planned and well made glass objects according to their own personal ideas; the object being a cohesive body of excellent original works of art presented in a professional manner. Prerequisite: ART 4931. *Fall and Spring, \$250 fee, 3 hours practicum, 3 credits.*

**ART 4941 Advanced Photography/Senior Seminar:** Emphasizes the development of the individual student's personal direction and the beginning preparation of a comprehensive body of work leading to a senior exhibition. Prerequisite: ART 3160 or consent of instructor. *Fall, \$100 fee, 3-6 hours lecture/practicum/discussion, 3 credits.*

**ART 4942/4943/4944 Advanced Photography/Senior Seminar:** Emphasizes the continued development of the individual student's personal direction in photography and the preparation of a cohesive body of work, culminating in the senior exhibition. Prerequisite: 4941.

**ART 4951 Advanced Sculpture/Senior Seminar:** Emphasizes the development of advanced skills in each student's individual chosen sculptural media and personal aesthetic. Students work closely with their instructor to determine their individual direction, to begin to identify methods of improving their skills, and to begin to develop projects suitable for each student's senior exhibition. Explores sculptural issues including history, philosophy, legal, and ethics. Prerequisite: ART 3170 or consent of instructor. *Fall, \$150 fee, 3-6 hours lecture/practicum/discussion, 3 credits.*

**ART 4952/4953/4955 Advanced Sculpture/Senior Seminar:** Continues the development of advanced skills in each student's chosen medium and personal aesthetic. Students will continue to work closely with their instructor to refine and complete projects suitable for each student's se-

nior exhibition. Students will present a body of work based upon their personal point of view. Prerequisite: ART 4951 or consent of instructor. *Spring, \$150 fee, 3-6 hours lecture/practicum/discussion, 3 credits.*

**ART 4961 Advanced Drawing and Painting/Senior Seminar:** Explores advanced drawing and painting methods, technical issues and aesthetic concerns. Emphasizes developing a personal approach to drawing and painting. Prerequisite: ART 3180.

**ART 4962/4963/4964 Advanced Drawing and Painting/Senior Seminar:** Continues to explore advanced drawing and painting methods, technical issues and aesthetic concerns. Emphasizes developing a personal approach to drawing and painting. Prerequisite: ART 4961.

**ART 4971 Advanced Printmaking/Senior Seminar:** Continues 3000-level elements of printmaking examining more complex printmaking skills, issues, and approaches. Increased focus is on expanding individual, intellectual, and artistic sensibility through creative application and integration of advanced printmaking knowledge, techniques, and concepts. Students are encouraged to create a professional portfolio of prints in preparation for a senior exhibit. Prerequisite: ART 3185 or consent of the instructor. *Fall, \$225 fee, 3-6 hours lecture/practicum/discussion, 3 credits.*

**ART 4972/4973/4974 Advanced Printmaking/Senior Seminar:** Continues Advanced Printmaking/Senior Seminar A projects and portfolios. Students continue projects begun in ART 4971, and add new related pieces to their portfolios. In the process, they will refine techniques used, and hone their individual, creative, intellectual, and artistic growth concluding with a senior exhibition. Prerequisite: ART 4971 or consent of the instructor. *Spring, \$225 fee, 3-6 hours lecture/practicum/discussion, 3 credits.*

**ART 4810 Professional Practices:** Focuses on the practices of professional artists/art educators in establishing and maintaining their careers. Basic legal issues, ethical dilemmas, business practices and responsibilities, publicity, exhibition arrangements and installation, tax filing, professional organizations, and funding opportunities will be covered. Outside assignments and participation in a group exhibition are required. Prerequisites: Senior standing and art majors only. *Spring, \$200 fee, 3 hours lecture and discussion, 3 credits.*

## Art History

**ARHI 1001 Art History Survey I:** A chronological study of the development of art from prehistoric times to the thirteenth century. Paintings, sculpture, architecture, and the craft arts will be examined in relation to the development of Western culture. *Fall, 3 hours lecture and discussion, 3 credits.*

**ARHI 1002 Art History Survey II:** A chronological study of the development of art from the Renaissance to present day. Paintings, sculpture, architecture, and the craft arts will be examined in relation to the development of Western culture. *Spring, 3 hours lecture and discussion, 3 credits.*

**ARHI 3001 Modern and Post-modern Art:** Concentrated study of developments in art from the late 1800's to the present, with an emphasis on recent trends and aesthetic issues. *Fall, 3 hours lecture and discussion, 3 credits.*

## Art Therapy

**ARTH 3005 Experiencing the Arts:** Presents a multi-disciplinary introduction to the arts concentrating on individual expressions of visual art, music, dance, and drama. Students will study the methods and goals of these areas of human creativity, engage in a variety of expressive activities, analyze various art forms, and evaluate the

role of arts in the classroom curriculum. This course is a non-major course. *Fall/Spring and Weekender, \$105 fee, 3 hours lecture/discussion and practicum, 3 credits.*

**ARTH 3085 Art Therapy:** Presents a didactic and experiential introduction to art therapy as a discipline and profession. Course includes lecture, role play, and engagement in art therapy materials and methods. *Spring, \$40 fee, 3 hours lecture/practicum, 3 credits.*

**ARTH 4085 Art Therapy Fieldwork:** Supervised art therapy fieldwork experience in an area relevant to the student's interest. This will happen in a variety of therapeutic settings. Prerequisite: ART 385. *Spring, 4 hours fieldwork and 1 hour classroom supervision, 3 credits.*

## Biology

**BIOL 1001 Newsworthy Topics in Biology:** Focuses on the scientific method, cell biology, genetics, evolution, and biotechnology. Provides the background to become a knowledgeable, literate, and active participant in an increasingly technological society. Focuses on ethical considerations of modern biological issues. For the non-science major; not open to students who have passed BIOL 1125 or BIOL 1110. Co-requisite BIOL 1002. *Fall, Spring, and Summer, \$100 fee, 3 hours lecture and discussion, 2-hour laboratory, 4 credits.*

**BIOL 1003 Human Health Issues:** Focuses on human anatomy, physiology, diseases, and personal health care maintenance. Provides the background necessary to become an active consumer of contemporary health care. For the non-science major; not open to students who have passed BIOL 1125, BIOL 1110, or BIOL 1115. Co-requisite BIOL 1004. Dissection required. *Fall, Spring, and Summer, \$100 fee, 3 hours lecture and discussion, 2-hour laboratory, 4 credits.*

### **BIOL 1010/1036 Introduction to Field**

**Biology:** Provides a field-oriented experience with concentrated study of species identification, natural history, ecology and conservation. The topic for this course changes each semester. Offerings have included birds, bird banding, mammals, reptiles and amphibians, fishery biology, insects, fall wildflowers, lake ecology, winter ecology, maple sugaring, forest stewardship, Project WET, invasive species, water quality monitoring, and CSI. Consult current course offerings for each semester's topic. Note: Be prepared to experience the outdoor environment under all weather conditions. *Fall and Spring, \$50 fee, field practicum, lecture, discussion, and laboratory, 1-4 credits.*

**BIOL 1011 Aquatic Biology:** Studies the life found in streams and ponds through frequent collecting trips. Focuses on collecting samples followed by identification of fish, algae, aquatic invertebrates, and plankton. Correlates samples with measurements of physical factors such as temperature, pH, dissolved oxygen, alkalinity, hardness, etc. Utilizes seines, electro fishing, and an advanced water chemistry kit to make measurements. Please note: Students will get wet in this class. *\$50 course fee.*

**BIOL 1013 Fall Wildflowers:** Investigates the common wild flowering plants (herbs, shrubs, and trees) of the northeastern United States. Familiarizes students and prepares students to identify many common species and families and appreciate the status of Pennsylvania's endangered plants. Students prepare museum quality herbarium specimens of collected plants that you have collected. Specimens may be displayed at the Keystone herbarium. *\$50 course fee.*

**BIOL 1015 Insects:** What could be more fun than crazily chasing insects through a field with a butterfly net? Students will capture and identify as many types of insects as possible! *\$50 course fee.*

**BIOL 1017 Herpetology:** Examines the habits and habitats of Pennsylvania's slimy and scaly vertebrates by looking under rocks and swamps. Data collected will be offered to the Pennsylvania Herpetological Atlas Project, an ongoing study to catalog the state's herp fauna. *\$50 course fee.*

**BIOL 1018 Stream Ecology:** Studies all aspects of the stream ecosystem, including abiotic factors (such as watershed composition and water chemistry) as well as the biota of the stream, including invertebrates and fish. Please note: Students will get wet in this class! *\$50 course fee.*

**BIOL 1019 Field Biology of the Pinelands (weekend course):** Studies the ecology and biology of the New Jersey Pinelands, our country's first National Reserve and a United States Biosphere Reserve of the Man and the Biosphere Program. This internationally important ecological region is 1.1 million acres in size and occupies 22% of New Jersey's land area. It is underlain by aquifers containing 17 trillion gallons of some of the purest water in the land. Examines the common and unusual plant and animal species of southern New Jersey. Students camp in Wharton State Forest and take field trips to Atlantic white cedar and red maple swamps, pine and oak forests, and dwarf pine plains. A half-day canoe trip is planned. Searches for carnivorous plants (such as pitch plants, bladderworts and sundews), orchids, the Federally threatened Swamp Pink and Kneiskern's beakrush, the Northern Pine snake, Timber rattlesnake and Pinebarrens Tree Frog, as well as many other species of fauna and flora. *\$125 course fee.*

**BIOL 1020 Water Quality Monitoring:** Become proficient in using the Hach Portable Water Chemistry lab to sample stream or lake water. You will gain an understanding of the watershed concept, properly collect water samples for analysis, and have a basic knowledge of the use of spectrophotometry and the technique of titration. You will develop a basic understanding

of the significance of the parameters measured, and evaluate your findings in comparison to accepted water quality standards. *\$50 course fee.*

**BIOL 1021 Bird Banding:** Capture and release unharmed birds after applying a small metal band to their leg, under the direction of a certified Master Bander. Banding birds allows studies of dispersal and migration, behavior and social structure, lifespan and survival rate, reproductive success and population growth. Hands-on course. *\$50 course fee.*

**BIOL 1022 Lake Ecology:** Examines water chemistry, invertebrates, plankton, and fish life of local lakes and ponds from the shoreline and boats. *\$50 course fee.*

**BIOL 1023 Forest Stewardship:** Introduces principles and methods of forest stewardship including the philosophy of forest stewardship, identification and ecology of some common trees, forest resource measurements, timber management, and wildlife management. *\$50 course fee.*

**BIOL 1024 Mammals of Pennsylvania:** Examines the mammals of Pennsylvania, and especially those in the northeastern United States. Students identify mammals by their skulls and skins and gain familiarity with simple taxonomic keys. Use skin collection which includes bear, wolf, rabbit, mink, skunk, ermine, and beaver. Correlate the distribution of Pennsylvania's mammals in relation to glaciation, climate, physiographic features, bedrock, soil, etc. Interested students will prepare a mammal skin and skull as museum quality specimens. *\$50 course fee.*

**BIOL 1027 Maple Sugaring:** Addresses the history, science, techniques and marketing of maple products in the northeastern United States. Participate in the tapping, collecting and processing of maple products and learn how to manage a maple tree stand to maximize sap production. *\$50 course fee.*

**BIOL 1028 Invasive Plants: Ecological Impacts of Invasive Exotic Plants in Northeastern Pennsylvania Environments:** Addresses the ecological and physical impacts of invasive exotic species in northeastern Pennsylvania, focusing on identification, culture and invasion scenarios that degrade native plant communities in urban, agricultural and wetland environments. The identification portion of the course utilizes the Woodlands Campus as a study area. Includes an afternoon/early evening field trip to a nearby degraded wetland, woodland, and farm. *\$50 course fee.*

**BIOL 1029 Aquatic Entomology:** Examines immature aquatic insects, the best indicators of water quality due to life span length. Collects, preserves, and identifies these organisms and examines aquatic insects as indicators of clean water, as well as those that can tolerate polluted conditions. *\$50 course fee.*

**BIOL 1032 Forensic Entomology:** Dead people can't talk, but insect decomposers can! Forensic entomology is the study of insects and other arthropods that are used to uncover circumstances of interest to the law, often related to a crime. It can be used to decide how long human remains have been undetected, whether the corpse has been moved after death, the cause of death, and may help to solve cases of contraband trafficking. We will document the process of decomposition and insect activity throughout the course. *\$50 course fee.*

**BIOL 1037 Ornithology:** Can you identify the bird that just flew by? What was that song? You'll be able to answer these questions when we go to the field where identification techniques are stressed. Learn the techniques of capturing and marking birds with small metal leg bands. We visit many habitats to view waterfowl, as well as grassland, mature woods, and successional field species. Identification of birds by their song is also stressed. Recent classes have visited raptor rehabilitators and the Cornell mu-

seum of ornithology. Highlights of the course are winter trips to view Bald Eagles, and the semester-ending weekend trip to the New Jersey coast at the height of migration. *\$125 course fee.*

**BIOL 1038 Marine Mammals:** Focuses on whales, dolphins, porpoises, and seals. Following land-based introductory sessions that dive into anatomy, taxonomy, and natural history, travel to the Atlantic coast to see these magnificent animals in their natural habitat. *\$125 course fee.*

**BIOL 1039 Identification of Woody Plants:** Examines the morphological, cultural, ecological and aesthetic characteristics of 100 woody plants common to northeastern Pennsylvania. Studies native, introduced and cultivated species of trees, shrubs, and woody vines. Course includes two local off campus field trips and one day-long field trip via bus charter to Longwood Gardens in Kennett Square, Pa. *Fall, \$50 course fee, 3 hours lecture and discussion, 3 credits.*

**BIOL 1041 Fish of Northeastern Pennsylvania:** Examines Pennsylvania's streams and lakes to learn what fish live there. Utilizes collection techniques such as seining and electrofishing to catch as many species as possible. Discusses identification of well-known game fish such as trout and bass, the many difficult species of minnows, and other non-game species. Concentrates on fisheries biology techniques such as food habits, habitat analysis, and age-growth calculations (by reading scales). *\$50 course fee.*

**BIOL 1043 Winter Ecology:** Examines how plants and animals survive the rigors of cold and dryness during Pennsylvania's winters. Studies the important impacts of snow cover on the lives of wildlife. Dress warmly, because this class spends many of its meeting dates from January through March in the out of doors. *\$50 course fee.*

**BIOL 1044 Feeders, Forests, and Bird Behavior:** Part of Cornell University's nationwide "Citizen Scientist" outreach programs. Students gather the data and Cornell analyzes

and publishes. Participate in Project Feederwatch by feeding birds, counting the number and type that visit the feeders, and sending the data over the internet to Cornell's web site for analysis. In the Birds in a Forested Landscape Program. Students play recorded bird songs, call notes, and mobbing calls to selected forest species. Observe and record their behavior and forward the data to Cornell. *\$50 course fee.*

**BIOL 1046 Observing Nature Through Lenses:** Provides tips to effectively photograph plants, insects, and other wildlife, using digital or film photography. *\$50 course fee.*

**BIOL 1047 CSI La Plume:** Course examines a hypothetical crime scene on campus. Students photograph the crime scene, study blood spatter and analyze evidence to solve the case. *\$50 course fee.*

**BIOL 1049 Ecology of Vernal Pools:** Examines the biology and chemistry of vernal pools. Vernal pools fill with rainwater in the spring but often dry out in summer. During that time they are alive with salamanders, frogs, tadpole shrimp and many other creatures. *\$50 course fee.*

**BIOL 1050 Natural History of the New Jersey Pinelands by Canoe (weekend course):** Spend the weekend camping in the New Jersey Pinelands and canoe the tea colored waters as you learn about the natural history of this special area. Students travel by van to the New Jersey Pinelands on Friday night. Saturday features a full-day canoeing on one of the coastal plain streams in the pinelands while learning about the geology, aquifers, plants, animals and human influences of the NJ Pinelands. Sunday may include another half-day canoe trip or a trip by van to some of the other special places in the Pinelands. Pre-trip meeting and readings required. *\$125 course fee.*

**BIOL 1053 Butterflies and Dragonflies:** Examines the identification of butterflies and

prepares a reference collection and photographic atlas of local species. *\$50 course fee.*

**BIOL 1055 Biology and Geology of Caves:** Studies the formation and conservation of caves, as well as the organisms that call them home. Features a weekend-long caving trip to the limestone caverns of upstate New York. *\$125 course fee.*

**BIOL 1058 The Living Susquehanna:** Experience the story of the Susquehanna River through a two-day kayak trip from Meshoppen to Falls. Learn about the longest river on the east coast. Topics include the geology of the watershed, history, industrial uses, health of the river, and looking to the future. *\$125 course fee.*

**BIOL 1060 Wildlife Rehabilitation: The Basics:** Examines the identification, treatment, pharmacology, and basic wildlife rehabilitation beginner skills on mammals of Pennsylvania. *\$50 course fee.*

**BIOL 1061 Mushrooms and Other Fungi:** This one credit course will be primarily a field course to observe the various types of mushrooms such as the fleshy gilled mushrooms, the fleshy pored mushrooms, the coral fungus, and the woody polypores. These fruiting bodies will be found on soil, on trees and on other fungal fruiting bodies. The anatomy of these fruiting bodies will be studied. Through the use of various keys, observing the characteristics of the fruiting body, the color of spores prints, the size, the flesh coloration, the reaction to bruising the various parts of the fruiting body, the taste, the odor, the habitat and the season of fruiting, we will attempt to identify various mushrooms, toadstools, coral fungus and brackets fungi. Note: this is not a wild edibles course. Poisonous and non-poisonous species will be discussed. The ecology, biology and human use will be discussed.

**BIOL 1062 Forensic Psychology:** Addresses basic concepts in photography and their application to professional documentation of crime scenes and laboratory evidence. Required equipment includes digital format SLR camera (a few may be available for sharing during exercises), and electronic flash. Course instruction is through lecture, case review, and application exercises. *\$150 fee, 1 credit.*

**BIOL 1110 Human Anatomy and Physiology I:** Utilizes a systems approach to study the anatomy and physiology of the human body. Integrates structure and function at all levels of organization. Studies the integumentary, skeletal, muscular, and nervous systems. Prerequisite: C or better in BIOL 1125. Dissection required. *Fall and Summer, \$100 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**BIOL 1115 Human Anatomy and Physiology II:** Continues the study of the circulatory, digestive, respiratory, endocrine, excretory, and reproductive systems; coordination of the organs within each system; and the close relationship of the systems. Prerequisite: C or better in BIOL 1110 or consent of the instructor. Dissection required. *Spring and Summer, \$100 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**BIOL 1120 Environmental Science:** Studies human interactions with the environment. Focuses on ecological principles of ecosystem structure, population of dynamics of humans and other organisms. Considers sources and supplies of biological, food, soil, mineral and energy resources, as well as methods of mitigating the effects of their use and exploitation. The philosophy of sustainable development will underlay the course, as will the role of the individual in the decision-making process. *Spring and Summer, \$100 fee, 2 hours lecture and discussion, 2-hour laboratory, 3 credits.*

**BIOL 1125 General Biology I:** Introduces science majors to topics such as the nature of science, basic chemistry, the origin of life, cell structure and function, reproduction, genetics, population, evolution, energy relationships, and the diversity of animals. Dissection required. *Fall, Spring and Summer, \$100 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**BIOL 1130 General Biology II:** Introduces science majors to the structure, function, and diversity of plants, including algae and fungi. Studies morphology, anatomy, physiology, economic botany, taxonomy, and ecology. Prerequisite: BIOL 1125 or consent of the instructor. Dissection required. *Spring, \$100 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**BIOL 1135 Introduction to Forensic Science I:** Scientific and investigative techniques of various forensic disciplines including serology, blood spatter, anthropology, fingerprints, pathology, and trace evidence. Examines the role of the expert witness and the scientific method in forensic investigation. *Fall and Spring, \$150 fee, 3 hours lecture, 3-hour laboratory, 4 credits.*

**BIOL 1140 Medical Terminology:** Studies the technical and specialized anatomical, surgical, pharmaceutical, and common medical phrases. *Fall and Spring, 2 hours lecture and discussion, 3 credits.*

**BIOL 2001 Biological Dimensions of Human Sexuality:** Emphasizes sex as a biological phenomenon. Considers important questions such as: What is sex? When did sex evolve? Why sex? Studies the history of sex and sex in nature. Serves as a source of information regarding what can be expected from the human body and modern day issues concerning sexuality. Emphasizes human anatomy and physiology, human population, conception, pregnancy, birth, STDs, and AIDS. *Spring, \$50 fee, 3 hours lecture and discussion, 3 credits.*

**BIOL 2002 Nutrition:** Studies the structural and functional relationships between biological molecules and human health. Studies the nutrients essential to human life and well-being will be undertaken. Studies nutrients relative to their function in metabolism, sources in food, and relationship to health. *Fall and Spring, 3 hours lecture and discussion, \$50 fee, 3 credits.*

**BIOL 2003 Lifecycle of Nutrition:** Focuses on the fundamentals of normal nutrition from preconception to old age. Special attention will be paid to the physiological principles and nutritional interventions that apply to each part of the life cycle. In addition to the essential nutrition concepts, physiological principles and nutritional recommendations, for each stage of the lifecycle we will apply case studies to real life at each stage in development, with consideration of cultural and socioeconomic influences on healthy eating behaviors. *Fall, 3 hours lecture and discussion.*

**BIOL 2011 Science in Movies:** Explore science concepts presented in modern movies. Students examine a group of modern movies and explore the feasibility (through verbal and written assignments) of the science presented in each. Topic areas include molecular biology, genetics, microbiology, virology, chemistry, physics, astronomy, environmental science, and geology. Also explores ethical considerations. *3 credits, \$25 fee.*

**BIOL 2018 Special Topics in Biology Operation Rubythroat:** Ruby-throated Hummingbirds, the only nesting hummingbird in the eastern U.S. migrate to the south during our winter. They are poorly studied in Mexico and Central America where they spend their non-breeding months. During spring break, travel to Belize to participate in Operation Rubythroat under the direction of hummingbird researcher Bill Hilton of Hilton Pond Center for Piedmont Natural History in South Carolina. Observe, capture, band, and release wintering birds as they begin

to move north. As “citizen scientists,” play integral roles in conducting field work and making observations, will visit diverse habitats, and learn about fascinating aspects of Belize’s abundant natural history and fascinating Mayan culture. Fee: To be determined at time of travel.

**BIOL 2110 Pathophysiology:** Explores the pathophysiological aspects of illness. Emphasizes understanding disruptions in the structure and function of the human body and the adaptive processes utilized to maintain a steady state. Prerequisites: BIOL 105 and BIOL 106. Recommended elective for all students planning careers in human health. *Fall, 3 hours lecture, 3 credits.*

**BIOL 2115 Microbiology:** Examines the importance and impact of microorganisms on the modern world with an emphasis on bacteria and viruses. Techniques for identifying microbes will be explored through hands-on experimentation with various microorganisms. Prerequisites: C or better in BIOL 1125 and one semester of chemistry. *Spring, \$150 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**BIOL 2120 Introductory Ecology:** Studies the natural assemblage of plants and animals. Emphasizes the interactions of both plant and animal populations in normally functioning ecosystems. Studies ecosystem structure, predation, competition, temperature, water, and energetic relationships; food webs, succession, and conservation biology. Laboratory focuses on field techniques, data analysis, and writing in acceptable scientific style. Prerequisites: BIOL 1125 and 1130 or consent of the instructor. *Fall, \$100 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**BIOL 2125 Genetics:** Emphasizes genetic and evolutionary mechanisms, gene interaction, polygenic inheritance, selection, mutation, human diversity, human mating systems, management of the human gene pool, the direction of pres-

ent and future research. Prerequisite: BIOL 1001 or 1003 or 1125 or consent of the instructor. *Fall, 3 hours lecture and discussion, 3 credits.*

### **BIOL/ANTH 2130 Biological**

**Anthropology:** Covers topics on human evolution and modern human diversity, focusing on humanity's biological roots and modern appearance. Emphasizes evolutionary theory, human population genetics, and human's place in the animal kingdom. *Spring and Summer, 3 hours lecture and discussion, and class activities, 3 credits.*

### **BIOL 2140 Introduction to Forensic Science**

**II:** Scientific and investigative techniques of various forensic disciplines including DNA analysis, toxicology, environmental forensics, impression evidence, ballistics, and questioned documents. Prerequisites: BIOL 11130 or consent. *Spring, 3 hours lecture and discussion, 3-hour laboratory, \$150 fee, 4 credits.*

**BIOL 2145 Bioethics:** Theories and concepts of ethics are introduced. Case Studies, class discussion, and lecture will be used to evaluate and analyze ethical problems and issues from various perspectives pertaining to the biological sciences. Students will be able to support ethical decisions with logical arguments. Prerequisites: ENGL 1110 and ENGL 1115, BIOL 1125 or CHEM 1120 or PHYS 2110. *Fall, 3 credits.*

**BIOL 3110 Cell Biology:** Studies the structure and function of a cell and its subcellular organelles. Focuses on biological macromolecules, enzyme, biomembranes, biological transport, bioenergetics, DNA replication, protein synthesis and secretion, motility, and cancer. Cell biology experiments and interactive computer simulation exercises are conducted in the laboratory. Prerequisites: BIOL 1125 and BIOL 1130. *Fall, 3 hours lecture and discussion, 3 hours laboratory, \$150 fee, 4 credits.*

**BIOL 3115 Wetland and Riparian Ecology:** Focuses on major concepts in wetland ecology

including wetland definitions, identification and delineation, and wetlands functions and values. Discusses wetland classification systems; state and federal jurisdiction and policies; and regulatory issues in wetland conservation, protection, and management. Includes field trips to on- and off-campus sites. Prerequisite: BIOL 2120, relevant field biology courses such as Wildflower Identification are recommended. *Fall, \$100 fee, 3 hours lecture and discussion, 3 credits.*

**BIOL 3125 Biochemistry I:** Studies the major classes of biological molecules including carbohydrates, lipids, amino acids, proteins, and nucleic acids. Examines how structure and function are interrelated and how poor structure will lead to a disease state. Prerequisites: CHEM 2110 or 2115. *Fall, 3 hour lecture.*

**BIOL 3130 Biochemistry II:** Examines the metabolic pathways of life, including the anabolic and catabolic pathways for carbohydrates, lipids, proteins, amino acids, and nucleic acids. Enzyme structure and function will be reviewed since these are important and necessary components of any metabolic pathway. Prerequisite: BIOL 3125. *Spring, \$150 fee, 3 hours lecture and 3 hours laboratory.*

**BIOL 3135 Limnology:** Investigates lakes, reservoirs, ponds, and streams as dynamic systems. Considers the physical, chemical, geological, and biological components of aquatic ecosystems. Emphasizes quantitative sampling and analytical techniques. Prerequisites: BIOL 2120 and CHEM 1120; CHEM 2120 is recommended. *Fall, \$100 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**BIOL 3140 Forensic Anthropology:** Enables students to identify human skeletal material, including age, sex, ancestry, stature, and trauma. Students will learn and apply methods for the archaeological recovery of human remains for law enforcement purposes. *Spring, \$100 fee, 3 hours lecture and discussion, 3 hour laboratory, 4 credits.*

**BIOL 3145 Wildlife and Fisheries Biology:**

Provides a foundation of understanding in wildlife and fisheries science. Laboratory sessions will stress field techniques of sampling, handling, identifying, and monitoring wildlife and fish specimens and populations. Prerequisite: BIOL 2120. *Fall (not offered every year), \$100 fee, 3 hours lecture and discussion, 3 hour laboratory, 4 credits.*

**BIOL 3150 Virology:** Covers a detailed survey of viruses that are important to both humans and animals. Topics will include classification, structure, penetration and replication techniques, immune system responses, vaccines, diagnostic techniques, bioterrorism, and pandemic spread. Prerequisites: BIOL 1125, BIOL 2115 and CHEM 2110. *Spring, alternating years, \$150 fee, 3 hours lecture and discussion, 3 hour laboratory, 4 credits.*

**BIOL 3155 Biophysics:** Designed for upper division biology, forensic biology, and environmental resource management majors. Studies structural and functional relationships between biological molecules, molecular energetics and energy transduction. Living systems and thermodynamic laws, origins of life hypothesis will be discussed. Introduction to experimental techniques for structural determination, molecular modeling will be discussed. The course is didactic in nature with occasional hands-on lab experiences. Students will be required to do a literature review and presentation on a chosen biochemical topic of interest. Prerequisites: CHEM 1120 and 1125. Corequisite: CHEM 2110. *3 hours lecture and discussion, 3 credits*

**BIOL 3160 Immunology:** Designed for upper division biology and forensic biology majors. Covers the study of the basic principles of Immunology, focusing on the immune system and how this system protects the body from infectious agents. Prerequisites: BIOL 1110, BIOL 1115, and BIOL 1125 with a “C” or better. *Spring, alternating years, 3 hours lecture and discussion, 3 credits.*

**BIOL 4810 Seminar and Research:** Examines current topics of interest. Each student will prepare and present a seminar each semester based on a research area of interest. Prerequisite: Senior status. *Fall, \$100 fee, 3 credits.*

**BIOL 4910 Capstone Research Project:** Provides a research project under the direction of a faculty member. Research hours will be determined based on agreement between student and faculty mentor. A presentation of the research project will be made to the campus community in the form of a written and/or oral presentation of findings. Prerequisite: BIOL 4810 with a “C” or better and senior status and approval of instructor and mentor. *Spring, \$150 fee, 3 credits.*

## Business

**BUSN 1110 Introduction to Business:** Surveys a broad range of business concepts, provides basic knowledge needed in subsequent business courses, and helps students to see the role of business in society. Examines top- and first-line management decisions in large and small business environments. *Fall and Spring, \$25 fee, 3 hours lecture and discussion, 3 credits.*

**BUSN 2110 Principles of Management:** Studies the basic principles underlying the management of institutions. Acquaints students with the importance of coordinating individual and group behavior by planning, organizing, activating, and controlling the various activities necessary for the effective operation of the enterprise. Prior study of BUSN 1110 or HOSP 1135 is recommended. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**BUSN 2115 Marketing:** Studies the fundamental principles of mass distribution in relation to the producer, the middleman, and the consumer. Covers modern methods, product-promotion process, research and development, personnel and organizations, and channels and facilities. Prior study of BUSN 1110 or HOSP 1135 is

recommended. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**BUSN 2130 Written Communication:**

Reviews behavioral and motivational theories as they relate to various forms of business communication. Students will learn to incorporate the techniques of writing effective personal and business letters through the use of courtesy, clarity, conciseness, concreteness, completeness, and correctness. Prerequisite: ENGL 1110. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**BUSN 2145 Advertising:** Studies and researches the fundamental principles of successful advertising from the viewpoint of advertiser and consumer. Students will understand the complexity of human communication and consumer behavior. Prior study of BUSN 1110 or HOSP 1135 is recommended. *Spring (not offered every year), 3 hours lecture and discussion, 3 credits.*

**BUSN 2150 Retail Management:** Studies various phases of retailing: types of institutions, store layout, fixtures and equipment, merchandise buying, receiving, checking, marking and pricing, customer services, and sales promotion. Prior study of BUSN 1110 or HOSP 1135 is recommended. *Fall (not offered every year), 3 hours lecture and discussion, 3 credits.*

**BUSN 2160 Sales:** Studies the basic principles of selling and their practical applications, including the sales process and customer relations. Requires each student to make a sales presentation in class. Prior study of BUSN 1110 is recommended. *Spring (not offered every year), 3 hours lecture and discussion, 3 credits.*

**BUSN 2200 Project Management:** Provides and understanding of what project management means and how it improves success to projects. Covers the triple constraint of project management, the project life cycle, work breakdown structures, network diagrams, cost estimates, critical path analysis, critical chain scheduling,

quality control, motivation theory, risk management, and team building. Discussion research, comprehensive project plans, and presentations are required.

**BUSN 2510 Current Topics in Business**

**Seminar:** Provides students with advanced knowledge of current business issues in order to gain valuable insight into current trends in industry. This seminar will utilize business faculty, community leaders, and possibly government elected officials to share their experiences with leadership, business, and the external environment. *Spring, 1 hour lecture and discussion, 1 credit.*

**BUSN 3110 Personal Finance:** Provides students with basic knowledge of financial decision-making from the personal viewpoint of the employee. Introduces major financial concepts such as time value of money, various types of insurance, investment options and risks, retirement planning, and the impact of taxes. Helps HRM majors prepare to assist employees in financial decisions in the workplace. Helps prepare all students to make financial life decisions. Prerequisite: MATH 1115 or consent of the instructor. *3 hours lecture and discussion, 3 credits.*

**BUSN 3115 Financial Management:** Provides the student with the basic knowledge of finance decision-making from the business viewpoint. Introduces decision making in relation to controlling the financial structure, the flow of funds, and asset management of a business. Prerequisite: ACCT 1125. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**BUSN 3130 Workplace Environments:**

Increases awareness of the variety of jobs performed at various work sites through site visits, class discussion, and presentations by guest speakers. Develops a better understanding of organizational culture and the roles industry and business play in a particular community. Transportation to off site class meetings is not

provided. Prerequisites: BUSN 1110 or 2110.  
*Spring*

**BUSN 3135 Advertising and Sales Promotion:** Involves an in-depth analysis of advertising and sales for promotion of products and services with a special emphasis on marketing specific to consumer behavior in the global economy. Prerequisite: BUSN 2115. *Fall (not offered every year), 3 hours lecture and discussion, 3 credits.*

**BUSN 3140 Sales and Relationship Building:** Fuses relationship marketing with leadership and sales management reflecting the overwhelming majority of opinions expressed through market research. Focuses on building relationships with customers through relationship selling as well as studying ethical and legal issues in this area. *Spring (not offered every year), 3 hours lecture, 3 credits.*

**BUSN 3145 E-Marketing:** Provides students who desire to gain knowledge of web based e-commerce. This course is designed for the needs of managers, entrepreneurs, and professionals who want to begin a web business and desire basic knowledge of the internet marketing. Individual development of a business and marketing plan will be emphasized for a new web based business. *Spring, 3 hours lecture, discussion, and computer based instruction, 3 credits.*

**BUSN 3150 Business/Civil Law:** Provides a foundation for managers to operate within the legal environment in which all businesses in our society function. Provides an overview of law and our legal system, the lawmaking and adjudicatory processes, and the roles of economic, social, and political forces in the shaping of constraining legal rules and regulations. Exposes the student to the law in regards to profit and non-profit organizations including torts, contracts, property transfer, and negligence. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**BUSN 3155 Project Risk Management:** Provides an in-depth analysis of risk management methodologies, from strategic, tactical qualitative and quantitative aspects. Tools and techniques for identifying, measuring, and monitoring risks in the project management environment are examined. *Lecture and discussion, 3 credits.*

**BUSN 3160 Investments:** Studies practices and principles in capital accumulation. Provides critical analysis of various types of investments, sources of information, investment strategies, and corporate profitability. Prerequisites: ACCT 1125, sophomore standing, or consent from the instructor. *Spring, 3 hours lecture and discussion, 3 credits.*

**BUSN 3300 Business Ethics:** Examines and applies the theories and concepts of ethics. Analyzes and evaluates ethical problems and issues confronting organizations and businesses through case studies. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**BUSN 4115 Organizational Behavior:** Examines the application of psychological theory and research to the study of industrial, business, profit and nonprofit services, and governmental organizations. Emphasizes the interaction of individual perceptions, group dynamics, and organizational climates. Identifies strategies to maximize the satisfaction and effectiveness of each component within and between complex organizations. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**BUSN 4130 Advanced Financial Management:** Takes the students through such topics as risk management, strategic management, and international management where they will utilize in-depth studies to sharpen their analytical skills and develop coherent and comprehensive plans. Prerequisite: BUSN 3115. *Spring, 3 hours lecture and computer-based learning, 3 credits.*

**BUSN 4140 Marketing Research Methods:**

Provides the students with a comprehensive overview of the field of marketing research emphasizing an applied approach with applications that give students an understanding of the scope of marketing research. Computers will be utilized to analyze research data sets. The focus of this course will be both qualitative and quantitative. Prerequisite: MATH 2115. *Not offered every year, 3 hours discussion and computer instruction, 3 credits.*

**BUSN 4145 Strategic Business Management:**

Provides students with the foundation necessary to understand strategic business management and direction setting in the global economy. This course requires business students to assimilate, integrate, and utilize material from previous business courses to make sound decisions through the extensive use of case studies and discussion. Prerequisite: BUSN 3115. *Fall/Spring, 3 hours lecture and discussion, 3 credits.*

**BUSN 4150 Consumer Behavior:** Provides the students with the basic knowledge of why consumers behave and consume products the way that they do. The course examines the psychological, ethical, and management implications of consumer behavior. Considers global and technology issues and trends in consumer behavior as well as studying the consumer decision process. *Fall (not offered every year), 3 hours lecture and discussion, 3 credits.*

**BUSN 4155 Strategic Marketing:** Provides the students with the knowledge necessary to view marketing as a strategic tool. Strategic marketing provides study in the field of marketing that focuses on developing an understanding of marketing as the process of planning and execution of the concept, pricing, communication, and distribution of ideas, goods, and services. Prerequisite: BUSN 2130. *Spring (not offered every year), 3 hours lecture, 3 credits.*

**BUSN 4160 Advanced Project Management:**

Covers specific activities that integrate project management principals with the project life cycle, taking from the pre-award to closure. Prepares students for CAPM/PMP certification exams through full coverage of exam topics and practice exams. Topics include project integration management, planning, defining and sequencing projects, estimating budgets, quality control, risk management, team building, and communications. *3 credits.*

**BUSN 4710 Internship:**

Provides a supervised period of practical work experience integrated into the academic program. As a junior-level course, students will be expected to have appropriate responsibilities and/or additional academic assignments. Site and job description must be approved by students' advisers. *40 hours practicum required per credit, 1-9 credits.*

**BUSN 4910 Business Policy Capstone:**

Provides a senior seminar that uses independent study to synthesize business theory and practice through the use of simulations, and case studies stress decision making. Portfolio is completed. Prerequisites: BUSN 4145 (or associate degree), and senior status. *Spring, \$25 fee, 3 hours lecture, discussion and computer based learning, 3 credits.*

## Chemistry

**CHEM 0050 Prep Chemistry:** Intended for students who are interested in majoring in the biological sciences but do not have a strong background in chemistry and biology. Prepare students for a successful career in the sciences. Topics covered include: study skills for the sciences, graphing calculator use, scientific vocabulary building, scientific notation, dimensional analysis, chemical equations writing and nomenclature, atomic theory, oxidation - reduction reactions, moles, stoichiometry, and aerobic respiration/photosynthesis. This is a developmental course. Credits earned do not count toward graduation.

**CHEM 1120 General Chemistry I:** Discusses basic principles of inorganic chemistry including the scientific method, atomic structure, chemical bonding, periodic table, solutions, pH, and energy changes. Provides a sound foundation for future study in the different disciplines of chemistry: organic, inorganic, or biochemistry. Prerequisite: MATH 1125. Corequisite: MATH 1155 or MATH 2150. *Fall, Spring, and Summer, \$150 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**CHEM 1125 General Chemistry II:** Studies ionization, chemical kinetics, thermodynamics, equilibrium, hydrolysis, volumetric analysis, and qualitative and quantitative analysis. Prerequisites: one year high school algebra or MATH 1115, and CHEM 1120 with a grade of “C” or better, or consent of the instructor. *Spring, \$150 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**CHEM 1130 General Organic Chemistry:** Discusses organic reactions that deal primarily with metabolism. Studies aliphatic and aromatic hydrocarbons, alcohols and their derivatives, lipids, carbohydrates, proteins, and enzymes. Prerequisite: CHEM 1120 with a grade of “C” or better, or consent of the instructor. *Spring, \$150 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**CHEM 2110 Organic Chemistry I:** Introduces the compounds of carbon, including nomenclature, reactions, and basic theoretical concepts of molecules from a standpoint of electronic structures and energies. Prerequisite: CHEM 1125 with a grade of “C” or better, or consent of the instructor. *Fall, \$150 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**CHEM 2115 Organic Chemistry II:** A continuation of CHEM 22110. Studies polyfunctional and heterocyclic compounds, stereochemistry, and structure proofs. Laboratory emphasis is

on preparations of compounds and analytical and qualitative analysis, including work with gas chromatography, infrared and thin layer chromatography studies. Prerequisite: CHEM 2110 with a grade of “C” or better, or consent of the instructor. *Spring, \$150 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**CHEM 2120 Environmental Chemistry:** Studies the chemistry of the atmosphere, soils, and natural waters and chemical aspects of problems that humans have created in the natural environment. Includes an environmental chemistry laboratory that introduces field and laboratory techniques for sample collection, instrumentation, chemical analysis, and data analysis in environmental chemistry. Prerequisites: CHEM 1120 and CHEM 1125. *Fall, \$150 fee, 3 hours lecture, 3-hour laboratory, 4 credits.*

**CHEM 3110 Forensic Chemistry:** Examines chemistry and analytical methods used in the field of forensic science. Course topics include data analysis, drug analysis, instrumentation, polymer analysis, statistical analysis of data. Prerequisites: CHEM 1120, CHEM 1125, and CHEM 2110. *Spring, 3 hours lecture, 3 credits.*

**CHEM 3115 Instrumental Analysis:** Studies theoretical and experimental approach to spectrophotometry, including ultraviolet, visible, and infrared absorption in molecules, emission spectroscopy, nuclear magnetic resonance, mass spectrometry and gas-liquid and high-performance chromatography. Prerequisites: CHEM 1120 and CHEM 1125. *Fall, \$150 fee, 3 hours lecture, discussion, and hands-on assignments, 3 hours laboratory, 4 credits.*

## Communications

**COMM 1115 Interpersonal Communication:** Provides an introduction to the theories and principles of interpersonal communication in a variety of venues. The coursework is designed to increase the student’s ability to understand and

improve his/her communication effectiveness within interpersonal communications. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**COMM 1120 Mass Communication:** Explores books, newspapers, magazines, radio, recordings, television, films, and the Internet from several perspectives including historical and technological. Read about, consider, and discuss how advertising, prominent social issues, and global media, especially advances in technology, influence communications. Prerequisite: ENGL 1110. *Fall, 3 hours lecture and discussion, 3 credits.*

**COMM 1125 Speech Communication:** Introduces students to the concepts and basic techniques of public speaking. Students select topics, research and organize information, prepare visual aids, rehearse and deliver at least four speeches. Students are expected to master techniques of speech preparation, as well as, vocal and physical delivery. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**COMM 2110 Professional Speech:** Expands on concepts taught in COMM 1125. Individually and in groups, students prepare career-oriented presentations and learn to utilize presentation technology. Students also prepare a portfolio of their work that can be used in interview situations. Prerequisite: COMM 1125. *Fall and Spring, 3 hour lecture, discussion and presentation, 3 credits.*

**COMM 2145 Public Relations:** Explores the role and function of public relations in an industrialized society. Examines the historical evolution of public relations, career opportunities in the field, and professional/ethical/legal responsibilities. Introduces public relations activity in firms, social agencies, trade organizations, government, education, sports and entertainment. Reviews the basic public relations process (research, planning, communication, and evaluation) and the use of communication strategies to achieve organizational goals. Emphasizes the concepts of public relations, audience analyses

and persuasion. Reviews practical guidelines for using written spoken and visual techniques to reach selected audience. Prerequisite: ENGL 1125. *Fall, 3 hours lecture and discussion, 3 credits.*

**COMM 2155 Introduction to Radio Production:** Introduces the basic principles and practices of radio station operations and radio production. Students learn about and gain practice in conceiving, scripting, developing, performing, and producing a variety of radio programs while using a range of field and studio equipment, including emerging digital technologies. Examines issues of diversity in radio programming. *Fall, 3 hours lecture and discussion with field exercises and laboratory and production sessions, 3 credits.*

**COMM 2160 Digital Media Production:** Introduces students to the basic concepts, theories, and techniques of digital video production. Students practice all phases of program development pre-production, from concept through completion. Prerequisite: COMM 1120 or consent of instructor. *Fall, 3 hours lecture, discussion and hands-on assignments, 3 credits.*

**COMM 3110 Communication Theory:** Explores the nature of theory in communication study and explains the most common communication theories and their contexts. Examines theories of relationships, groups, cultures, and the media. Requires extensive writing and library-based research. Prerequisites: ENGL 1125, COMM 1115, COMM 1120, and COMM 1125. *Fall, 3 hours lecture and discussion, 3 credits.*

**COMM 3115 Communication Research Skills:** Examines methodologies and formats used in communication research necessary to complete the communication capstone. Included are a review of MLA and APA and an investigation of appropriate topics for the Capstone project and the selection, evaluation, reading, analysis, and synthesis, review and consideration of appropriate scholarly sources. Prerequisites:

ENGL 1125 or consent. *Spring, 3 hours lecture, library work, and discussion, 3 credits.*

**COMM 3120 Communication Ethics:** Surveys major moral theories such as virtue ethics, duty ethics, utilitarianism, and care ethics. Examines each theory in terms of its contribution towards understanding the ethical issues that confront the field of communication. Extensive writing, as well as, research and presentations are required. *Spring, 3 hours lecture and discussion, 3 credits.*

**COMM 3010 Special Topics in Communication:** Investigates diverse areas of interest in communication. Studies mass media and society, studies in sport communication, intercultural communication, advanced digital production and leadership communication, among others. Students complete both experiential exercises and case analyses. Prerequisite: COMM 1120. *Fall and Spring, 3 hours lecture, discussion, and experiential activities, 3 credits.*

**COMM 3125 Advanced Audio Production:** Trains students in the use of radio and audio technologies to effectively communicate ideas to diverse audiences. Focuses on teaching the full range of skills needed to complete radio programs of varying lengths and formats, including developing story ideas and treatments, conducting research, using newswire services, scriptwriting, recording and interviewing, announcing, mixing and editing audio elements, mix-down, producing CDs and more. Examines both the theory and practice of acoustics, psychoacoustics, and radio production, with an emphasis on both the aesthetic and technical aspects of the audio production process. *Spring, 3 hours lecture/lab, 3 credits.*

**COMM 3130 Case Studies in Sport Communication:** Provides an opportunity for investigation into, analysis of, and discussion (both written and verbal) about inherent ethical, legal, moral, and personal decisions of sport communication case studies. Sample topics include

the economic impact of a major league sports team, the Americans with Disabilities Act and its impact on professional sports, the ethics of marketing dangerous sports, and gender issues within professional sports. *Spring, lecture and discussion, 3 credit course.*

**COMM 3135 Small Group Communication:** Examines the dynamics and pragmatics involved in effective group interaction. Studies group communication concepts through the course text, lectures, and in-class exercises and by completing group decision-making and problem-solving projects. Concepts include leadership, group climate/culture, task and maintenance roles, and problem-solving and decision-making procedures. Prerequisites: ENGL 1125 and COMM 1125. *Fall (traditional) and Spring (on-line), 3 hours lecture and discussion, 3 credits.*

**COMM 4010 Critical Issues in Communication:** Focuses on in-depth study of controversial and/or specialized issues and subjects within the field of communication. Requires class participation and is reading and writing intensive. Review techno personal communication and conflict management. Students should have successfully completed at least three, 3000-level courses before enrolling in this course. *Spring, 3 hours lecture and discussion, 3 credits.*

**COMM 4115 Gender and Communication:** Integrates concept of interpersonal communication and communication theory in an analysis of gender identity and interactions between the genders. Concentrates on how gender has been used to affect the economic, professional, and social situation of both sexes. Comprehensive discussion, extensive writing, as well as research and presentations are required. *Fall (on-line) and Spring (traditional), 3 hours lecture and discussion, 3 credits.*

**COMM 4710 Communication Internship:** Provides opportunities for paid or unpaid work

experience. The internship requires a formal agreement among the student, his/her adviser, the curriculum coordinator, and the internship sponsor. Students should begin exploration of this option by contacting the curriculum coordinator. Prerequisites: COMM 3110, at least one 3000-level writing course, 3.0 overall GPA and 3.25 GPA in the major. *Fall, Spring, Summer, application and discussion, 1-9 credits.*

**COMM 4810 Capstone Seminar I:** Requires students to propose an original project to be completed in COMM 4910. By semester's end, each student will deliver a presentation of his/her portfolio and proposal to a faculty panel. *Fall, 3 hours lecture and discussion, 3 credits.*

**COMM 4910 Capstone Seminar II:** Requires students to complete original project started in COMM 4810. By semester's end, each student will deliver a presentation on his/her Capstone project to a faculty panel. *Spring.*

## **Criminal Justice**

**CJ 1115 Introduction to Criminal Justice:** Provides a comprehensive overview of the criminal justice system, including crime, criminal law, and constitutional implications. Examines the major institutional components of law enforcement: police, courts, and corrections. *Fall, 3 hours lecture and discussion, 3 credits.*

**CJ 2110 Criminology:** Studies crime and the body of knowledge which regards crime as a social phenomenon. Focuses on the nature, extent, causes, and prevention of crime. Explores sociological theories to explain criminal behavior. Also examines crime's impact on society and societal reactions to crime. Prerequisites: CJ 1115. *Fall, 3 hours lecture and discussion, 3 credits.*

**CJ 2135 Policing in America:** Explores the many roles of police in America. Examines Constitutional restrictions placed on police and the realities of the police role. Prerequisite: CJ 1115. *Spring, 3 hours lecture and discussion, 3 credits.*

**CJ 2140 Corrections in America:** Reviews the development of correctional practices from early to modern times. Analyzes contemporary correctional organizational structures and treatment modalities. Prerequisite: CJ 1115. *Spring, 3 hours lecture and discussion, 3 credits.*

**CJ 2125 Juvenile Delinquency:** Explores various theoretical perspectives to explain and prevent juvenile delinquency. Emphasis is placed on prevention and rehabilitation. *Spring, 3 hours lecture and discussion, 3 credits.*

**CJ 2710 Field Experience I:** Applies classroom experience to the real world. Work experience in a criminal justice agency is used to enhance knowledge of the intra-relationships within the criminal justice system. Prerequisite: CJ 2715. *Fall and Spring, application and discussion, 3 credits.*

**CJ 2715 Field Experience Preparation:** Plans for successful experiences in private, public, or community agencies within the criminal justice system. Assembles a professional portfolio including a resume and supporting documents, police and child abuse checks, and documents for other regulatory requirements such as First Aid and CPR certification. *Fall, \$75 fee, 3 hours lecture and discussion, 0 credits.*

**CJ 3115 Criminal Evidence and Court Procedures:** Evaluates sources, distinctions and limitations relating to substantive and procedural criminal law. Analyzes the rules of evidence as well as other evidentiary and procedural requirements which affect evidence collection and admissibility. Prerequisite: CJ 1115. *Fall - not offered every year, 3 hours lecture and discussion, 3 credits.*

**CJ 3120 Criminal Investigation:** Provides an introduction to the fundamental elements of criminal investigation, crime scene search, and collection and preservation of evidence. Prerequisite: CJ 1110. *Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**CJ 3130 Homeland Security:** Focuses on the political, legal, strategic and organizational challenges of Homeland Security and emergency management in a post September 11, 2001/Hurricane Katrina world. Homeland Security and emergency management will be examined from historical, organizational, domestic, global and philosophical perspectives. *Spring, 3 hours lecture and discussion, 3 credits*

**CJ 3135 Juvenile Justice System:** Examines approaches and procedures concerning identification, detention, and disposition relevant to the administration of criminal justice policy, practice, and law. Questions the juvenile justice process and examines critical issues facing the system as well as case law. Prerequisite: CJ 2125. *Fall/Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**CJ 3160 Probation, Parole, and Community Corrections:** Examines the history, theory, and practice of community treatment in the correctional process. Prerequisite: CJ 2140. *Fall/Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**CJ 3165 Terrorism:** Examines the ever changing nature and history of both domestic and international terrorism; to include major group ideologies, trends, tactics, targets and responses. Strategies to prevent and respond to acts of terrorism, including the roles of the federal, state, and local governments to the roll of public/private partnerships, and the impact of the Patriot Act in a post 9/11 world will also be examined. *3 hours lecture and discussion, 3 credits.*

**CJ 3170 Criminal Profiling:** Examines the techniques of socio-psychological profiling to detect patterns of career criminals specifically focusing on serial killers, child molesters, arsonist, rapists and other violent career offenders. Prerequisite: CJ 1115. *Fall/Spring - not offered every year, 3 credits, 3 hours lecture and discussion.*

**CJ 3175 Restorative Justice:** Examines the criminal justice and community restoration paradigm that emphasizes the healing relationship between victims, offenders and the community. *3 hours lecture and discussion, 3 credits.*

**CJ 3300 Professional Ethics:** Investigates ethical theories and concepts to analyze situations from various perspectives. The focus of the course will be on developing students' ability to support ethical decision with logical arguments. This is a writing intensive course. *Fall/Spring, 3 hours lecture and discussion, 3 credits.*

**CJ 4010 Selected Topics in Criminal Justice:** Analyzes issues related to the administration of justice. Conducts in-depth analysis of important and controversial issues facing the criminal justice system. Prerequisites: consent of instructor, 3.0 GPA. *Fall/Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**CJ 4110 Criminalistics:** Probes the phase of the criminal investigation process concerned with physical evidence. Emphasis placed on techniques, skills, and limitations of crime laboratories. Prerequisite: CJ 1125. *Fall/Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**CJ 4120 Court Organization and Operation:** Assesses the role of the court in the criminal justice system. Examines the state and federal system as well as the origin and development of the court system. Prerequisite: CJ 2135. *Fall/Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**CJ/SOCI 4125 Social Justice:** Explores the topic of social justice as it relates to the topics of poverty, equality, opportunity, race, class, and gender. Emphasizes a contemporary analyses of inequality, privilege, and oppression of marginalized and non-marginalized populations. Challenges views and assumptions regarding inequality in the United States.

**CJ 4130 Police Operations and Management:**

Explains the principles of organization and administration in law enforcement. Explores such topics as organizational structure, managerial philosophies, personnel issues, and leadership. Prerequisite: CJ 2135. *Fall/Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**CJ 4140 Community Oriented Policing:**

Examines the role of law enforcement in government and the importance of community relations. Explores the dynamics of race relations and other diverse groups related to the law enforcement community. Prerequisite: CJ 2135. *Fall/Spring - not offered every year, 3 hours lecture and discussion, 3 credits.*

**CJ 4510 Independent Study in Criminal**

**Justice:** Evaluates current issues and controversies in the criminal justice system. Prerequisites: 2.5 GPA, junior status and consent. *Research and discussion, 1-3 credits.*

**CJ 4710 Field Experience II:** Applies quantitative and qualitative research methodologies to a public, private, or community agency in consultation with the faculty adviser. Prerequisite: CJ 4715. *Fall/Spring, application and discussion, 3 credits.*

**CJ 4715 Field Experience Preparation:** Plans for successful experiences in private, public, or community agencies within the criminal justice system. Assembles a professional portfolio including a resume and supporting documents, police and child abuse checks, and documents for other regulatory requirements such as first aid and CPR certification. *Fall, \$75 fee, 3 hours lecture and discussion, 0 credits.*

**CJ 4910 Senior Seminar:** A comprehensive writing intensive capstone course that requires the student to apply the knowledge skills and abilities acquired in previous criminal justice and general education courses; culminating in a comprehensive final comprehensive examination, research project, oral presentation and a self-

reflection assignment which requires the student to evaluate their total college experience. Students work in close collaboration with the Career Development Center. Building on the concept of the Keystone Promise, the course prepares the student for the world of work by examining all aspects of the employment process, including portfolio and resume' preparation and participation in a mock employment interview. *3 hours lecture and discussion, 3 credits.*

## Culinary Arts

**CULN 1120 Stocks, Sauces, and Skills:** Engages students in the discussion and application of basic knife skills, stock and classical sauce production with emphasis on simmering and boiling. Contemporary sauces such as coulis and non-classical sauces will be discussed. Laboratory lectures and production revolve around introductory culinary principles. Equipment, principles of energy, types of knives, basic knife skills, professionalism, production, organization, and time management are discussed and applied during lab sessions. *Fall, \$65 fee, 2 hours lecture and 8 hours laboratory, 2 credits.*

**CULN 1125 Meat and Fish Fabrication:**

Introduces purchasing, receiving, aging, fabrication, and proper storage procedures of meat products. Emphasis will be placed on primal and sub-primal cuts, federal inspection, grading, yields and the classification of meats, poultry, and fish. Corequisite: CULN 1120. *Fall, \$65 fee, 2 hours lecture and 8 hours laboratory, 2 credits.*

**CULN 1130 American Cuisine:** Presents and analyzes indigenous ingredients, customs, and geographical elements of cuisines in our nation. Engages students in discussion and application of the basic cooking techniques of stewing, grilling, and broiling. Daily laboratory lectures and production revolve around regional cooking skills, ingredients, and menus. Corequisite: CULN 1125. *Fall, \$65 fee, 1 hour lecture and 4 hours laboratory, 2 credits.*

**CULN 1135 Cuisine of the World:** Explores the cuisines of selected countries with emphasis placed upon the cooking techniques of roasting and braising. Daily laboratory and lectures revolve around European culture and geography, cooking techniques, misen place, and recipe conversions. Previously-learned skills will be utilized and built upon, such as knife skills, sauce making, organization, and time management. Students will display professional and industry-related skills. Corequisite: CULN 1130. *Fall, \$65 fee, 1 hour lecture and 4 hours laboratory, 2 credits.*

**CULN 1140 Introduction to Baking:** Introduces learners to the application of techniques specific to breads, quick breads, pies and cookies. The primary focus will be on the principles of baking, chemistry of formulas, application of techniques, measuring and identification of equipment. Corequisite: CULN 1120. *Fall, \$65 fee, 1 hour lecture and 4 hours laboratory, 2 credits.*

**CULN 1155 Breakfast Cooking Seminar:** Teaches students how to prepare a variety of egg dishes and other popular breakfast items. Lecture includes identification of proper egg cookery, as well as the production of pancakes and waffles. Corequisite: CULN 1120. *Fall, \$30 fee, 1 hour lecture and 4 hours laboratory, .5 credits.*

**CULN 1160 Cooking Methodologies:** Introduces the methods of cooking through demonstration which in turn provides the student with a structured environment to practice each cooking technique to mastery. Cooking techniques that will be explored include moist, dry and combination methods to proteins, vegetables and starches. Pre-preparations techniques such as brining and marinating also are presented. \$65 fee. Corequisite: CULN 1120.

**CULN 1170 Introduction to Culinary Management:** Introduces students to the Hospitality industry, organization and basic human relation management. Job descriptions, management

theories, leadership styles, training methods, conflict resolution, employee training, menu development and customer communications are the main points of this course. *Spring, 3 hours lecture and discussion, 3 credits.*

**CULN 1175 Garde Manger:** Introduces students to the art of cold food preparation. Sandwiches, cold soups, salads, charcuterie, canapés, terrines and dressings are presented. Prerequisite: CULN 1120 and 1125. *Spring, \$65 fee, 1 hour lecture and 4 hours laboratory, 2 credits.*

**CULN 2115 Bar and Beverage Management:** Analyzes the beverage-industry and offers students opportunities to apply their knowledge in a hands-on setting. Students will learn basic drink recipes; discuss laws, alcohol production, production of coffees and teas, as well as non-alcoholic beverages. Prerequisite: CULN 1120 and 1125. *Spring, \$65 fee, 1 hour lecture and 4 hours laboratory, 2 credits.*

**CULN 2120 Cakes, Tortes, and Desserts:** Applies and expands upon introductory baking skills. Focuses on icings, cake mixing methods, decorating techniques, dessert sauces, pate a choux, mousses, meringues and plated desserts. Prerequisite: CULN 2130. *Spring, \$65 fee, 1 hour lecture and 4 hours laboratory, 2 credits.*

**CULN 2130 Restaurant Operations Management:** An introductory course in which the student assists in preparing and executing the operations of our on campus restaurant, The Chef's Table. Students will be rotated through various positions in the restaurant incorporating efforts to serve customers. Students also will receive instruction on service of food and beverages, place settings and customer relations specific to front of the house operations. Prerequisite: CULN 1120 and 1125. *Fall, \$325 fee, 20 hours lecture and laboratory, 3 credits.*

**CULN 2140 NOCTI Food Production and Service Examination:** Students register for the

NOCTI examination upon the expectations of graduating with a culinary arts degree Prerequisite: CULN 230. *Spring, \$65 fee, 0 credits.*

**CULN 2145 Techniques of Healthy Cooking:** Introduction and application of the principles of planning, preparation, and presentation of nutritionally balanced meals. Adaptation of basic cooking techniques and common restaurant offerings to lower the fat and caloric content to accommodate special dietary considerations. Alternative methods and ingredients will be used to achieve a healthier cooking style. Prerequisite: CULN 2130. *Spring, 1 hour lecture and 4 hours laboratory, 2 credits*

**CULN 2150 Restaurant Development and Practicum:** Engages students in process of establishing a restaurant including the management of daily procedures and kitchen leadership theoretically and through implementation. Discusses and applies concepts of management, marketing, menu planning, business plans and entrepreneurship specific to the restaurant industry. Advanced application is woven throughout this capstone course through the requirement of a practicum experience of 18 hours per week in our on campus restaurant, The Chef's Table. Prerequisite: CULN 2130. *Spring, \$325 fee, 20 hours lecture and laboratory, 4 credits.*

## Early Childhood Education

**ECE 1110 Introduction to Early Childhood Education:** Studies the relationship between play and learning and the role of the adult in facilitating learning through play. *Spring, \$50 fee, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**ECE 2016 Special Studies in Early Childhood Education:** Provides principles and best practices for working with young children and school-age children in various content areas to ensure optimum developmental outcomes. Requires the consent of the adviser. *3 credits. Fieldwork required.*

**ECE 2115 Curriculum and Program Planning: Ages 3-8 Years:** Examines content, methods, and materials for the design and implementation of early childhood education curricula. Prerequisite: ECE 1110. *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**ECE 2160 Health and Wellness of Young Children:** Strategies for providing optimum developmental experiences for the early years (0-5). Focus is on physical and emotional well-being, with an emphasis on wellness, nutrition and outdoor play. Includes planning for nutritional experiences for young children and the study of playgrounds. This course contains a field component. *3 credits, Spring, \$75 fee.*

**ECE 2180 Early Childhood Education Seminar:** Provides opportunities for synthesis and evaluation of the knowledge, skills, and dispositions that define early childhood practices at the associate degree level. Current issues and trends in the field will be reviewed. Corequisite: ECE 2715. (A.S. Candidates only) *Spring, 3 hours inquiry and discussion, 3 credits. Fieldwork required.*

**ECE 2715 Community-Based Early Childhood Experiences:** Studies the care of young children in out-of-home settings as a participant in the setting. Corequisite: ECE 2180, ECE 2115, and consent of instructor. (A.S. candidates only) *Spring, 120 hours, 3 credits. Fieldwork required.*

**ECE 3120 Curriculum and Methods: Mathematics:** Analyzes application and methodology of instructional techniques in kindergarten through fourth grade in the content area of mathematics. Emphasizes developmental, constructive, and process skill approaches. Provides students with hands-on, inquiry-based formats with direct application for teaching Mathematics. Prerequisite: EDUC 3110. (Open to certification candidates only). *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**ECE 3125 Curriculum and Methods: Social Studies:** Analyzes application of methodology and instructional techniques in kindergarten through fourth grade in the content area of social studies. Emphasizes developmental, constructive, and process skill approaches. Provides students with hands-on, inquiry-based formats with direct application for teaching Social Studies. Prerequisite: EDUC 3110. (Open to certification candidates only). *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**ECE 3130 Curriculum and Methods: Science:** Analyzes application of methodology and instructional techniques in kindergarten through fourth grade in the content area of science. Emphasizes developmental, constructive and process skill approaches. Provides students with hands-on, inquiry-based formats with direct application for teaching Science. Fieldwork is required and clearances are necessary. Prerequisite: EDUC 3110. (Open to certification candidates only). *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**ECE 3135 Early Literacy Foundations:** Designed to establish the foundations of early literacy development in children Pre-K, Kindergarten, and First Grade, with respect to reading, writing, speaking and listening. Students will demonstrate and apply their understanding of content knowledge, child development and researched-based practices. Prerequisite: EDUC 2125. (Open to certification candidates only). *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**ECE 3145 Teaching Reading in Grades 2-4:** Designed to establish the foundations of literacy development in children second through fourth grade and builds on the content from ECE 3135. Current trends, research and state standards will be presented. Students will apply appropriate teaching strategies, assessments and adaptations when developing and implementing

literacy lessons. Prerequisites: EDUC 2125 and ECE 3155. (Open to certification candidates only). *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**ECE 3150 Administration and Supervision of School for Young Children:** Examines the principles and practices of administration and supervision, the development of policies to implement school philosophy, and school organization. (A.S. candidates only). *Fall/Spring, 3 hours inquiry and discussion, 3 credits. Fieldwork required.*

## **Economics**

**ECON 2110 Principles of Economics I:** Studies macro-economics: the nature of the American economy; theory of national income; producing, consuming, and investing money; banking and the Federal Reserve System; the public sector and its monetary and fiscal policies; theory of economic growth; and problems of international economic development. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**ECON 2115 Principles of Economics II:** Examines the principles of micro-economics, the cost structure of individual economic units, theory of price under different market conditions, distribution of income, problems of poverty and insecurity, wage determination, and antitrust regulation. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**ECON 3110 Money and Banking:** Reviews the background and policies of monetary and banking systems. Gives special attention to commercial banking, the Federal Reserve System, interest rates, and money markets. Provides students with the knowledge and practices conceptual skills needed for advanced study and career advancement in financial fields. Prerequisite: ECON 2115. *Fall or Spring (not offered every year), 3 hours lecture and discussion, 3 credits.*

## Education

### **EDUC 1110 Introduction to Teaching:**

Provides information and experiences about the personal and professional requirements for becoming a teacher, including the knowledge, skills and dispositions necessary for quality teaching. *Fall and Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 1710-1740 Field Experience:** Field experiences are required each semester (one through seven) for students pursuing a degree in education or students pursuing accelerated certification. Observation/participation equivalent to time spent in a three-hour class is required. Field experience fee is \$150 per semester. *0 credits.*

### **EDUC 2125 Teaching Literacy Through Literature:**

Includes an in-depth study of literary genres, including the role of poetry and expository text in reading development; diverse perspectives in children's literature; digital and online texts and using literature in all content areas. *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

### **EDUC 2130 Child, Family, and Community:**

Considers the role the environment plays in the development of the child. Analyzes the impact of family and community, including the relationship of culture, religion, socioeconomic status, and ethnic and racial origins on individual and group status. Prerequisite: PSYC 2190. *Fall, 3 hours inquiry and discussion, 3 credits. Fieldwork required.*

### **EDUC 2135 Introduction to Teaching in the Secondary Schools: Standards, Content, Methods:**

Provides a bridge between academic work in the content areas and the challenges confronted as a secondary school teacher. Includes content selection and organization, instructional techniques, assessment, working with special needs students (including English language learners), motivation, and other top-

ics. *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

### **EDUC 3001 Formal Acceptance: Teacher Candidate Status (Academic Skills Assessment):**

For all education programs at Keystone College, education students must be formally accepted as an education major in the Education Division to be considered a teacher candidate for certification and advance to 3000/4000 level coursework. Acceptance interviews are held in May, August, and December of each year. Students must complete PECT (PAPA), obtain all clearances, submit a credential portfolio via Live-Text, and an application for formal acceptance by April 20 for the May interviews, July 20 for August interviews, or November 20 for December interviews. Detailed information regarding criteria and process for formal acceptance can be found on [www.keystone.edu](http://www.keystone.edu).

**EDUC 3110 Curriculum Planning:** Promotes the study of the development of pre-primary, primary and middle level curriculum with particular reference to standards-based education in the areas of language and reading, mathematics, science, social studies, environmental education, and health. (Open to certification candidates only.) *Fall and Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 3115 Curriculum and Methods: Mathematics:** Analyzes application and methodology of instructional techniques in grades four through eight in the content area of mathematics. Emphasizes developmental, constructive, and process skill approaches. Prerequisite: EDUC 3110. (Open to certification candidates only.) *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

### **EDUC 3120 Curriculum and Methods:**

**Citizenship and Social Sciences:** Analyzes application and methodology of instructional techniques in grades four through eight in the content area of citizenship and social sciences.

Emphasizes developmental, constructive, and process skill approaches. (Open to certification candidates only.) Prerequisite: EDUC 3110. *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 3125 Curriculum and Methods Science:** Analyzes application and methodology of instructional techniques in grades four through eight in the content area of science. Emphasizes developmental, constructive, and process skill approaches. (Open to certification candidates only.) Prerequisite: EDUC 3110. *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 3140 Family Health and Safety:** Presents and analyzes current concepts of health, safety, and nutrition and their relationship to the growth and development of young children. Fieldwork required and clearances are necessary. Prerequisites: EDUC 3004, EDUC 3110 (except Child and Family Studies majors). *Fall, \$75 fee, 3 hours lecture and discussion + field assignments, 3 credits.*

**EDUC 3150 Art Education Media and Methods/Elementary Methods:** Presents the organization, experience, and evaluation of teaching situations specific to art in the K-12 art curriculum, including curriculum planning, basic art education theories, lesson planning, classroom presentation techniques, history, aesthetics and criticism as they relate to the handling of art media. Prerequisite: EDUC 2135. *Fall, \$75 fee, 6 hours lecture, discussion, 3 credits. Fieldwork required.*

**EDUC 3155 Developmental Assessment I:** Using observation and informal assessment to identify learner needs and develop appropriate interventions this course explores the principles and techniques of sound informal assessment strategies in elementary, middle, and secondary education settings. *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 3165 Developmental Assessment II:** Using formal assessment to identify learner needs and develop appropriate interventions, this course explores the principles and techniques of sound formal assessment strategies in early elementary, middle, and special education settings. *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 3175 Secondary Curriculum and Methods: Social Studies:** Analyzes and applies methods of instructional techniques, current social studies curriculum materials and methodology, as well as social science curricula and the Pennsylvania Academic Standards. Prerequisite: EDUC 2135, 33001 (Open to certification candidates only.) *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 3180 Foundations of Reading Instruction:** Establishes the foundations of literacy development for children in fourth through eighth grade. Covers beginning literacy, strategies for word level instruction, activating prior knowledge, vocabulary and comprehension strategies, writing and classroom assessment. (Open to certification candidates only) Prerequisite: EDUC 3001. *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 3195 Instructional Strategies for Content Area Reading:** Introduces students to strategies for literacy instruction and implications for student learning in all content areas. Fieldwork is required and clearances are necessary. Prerequisites: EDUC 2135, 3001. (Open to certification candidates only.) *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 3200 Math Education and Methods/Secondary:** Focuses on teaching activities for the secondary mathematics teacher (grades 7-12). Topics include secondary mathematics instruction, history of mathematics education in the USA, student assessment, teacher evaluation, and the use of mathematical resources. Prereq-

quisite: EDUC 2135, 3001. (Open to certification candidates only.) *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

### **EDUC 3205 Teaching Reading in Grades**

**4-8:** Builds on the foundational content knowledge of EDUC 3180 and provides additional strategies to address the challenges of adolescent literacy. Research that shapes middle school reading will be examined as well as elements of effective adolescent literacy programs. Prerequisite: EDUC 3180. (Open to certification candidates only) *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

### **EDUC 3210 Teaching English Language**

**Learners:** Introduces effective instructional strategies as students integrate the PA Language Proficiency Standards and the PA Academic Standards, to differentiate and modify instruction. Prerequisite: EDUC 3001 for education majors. *Fall and Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

### **EDUC 3215 Integrating the Arts for the**

**Developing Child:** Introduces methods and instructional strategies that engage the young child in quality experiences in visual art, dance, theater and music. Focuses on appropriate developmental concepts that are experiential and process-oriented, which incorporate play, and engage all children, including diverse populations, in authentic learning about, in and through the arts. Prerequisite: EDUC 3001. *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

### **EDUC 3225 Teaching Writing in Grades 4-8:**

Introduces students to narrative, expository, persuasive and other kinds of writing tasks and best practices for teaching writing. Prerequisite EDUC 3001. (Open to certification candidates only) *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

### **EDUC 4001 PRAXIS II/PECT: Subject**

**Assessments:** Measures your knowledge of the

subjects you will teach. This course will appear on student's transcripts after the Education division has been provided with passing Praxis II/PECT exam scores. Passing Praxis II/PECT scores are required for recommendation to PDE for certification. Students must attempt PRAXIS II/PECT exams prior to student teaching placements. If a candidate is not successful in passing PRAXIS II/PECT, the candidate must engage in PRAXIS Preparation and retake the assessment prior to the end of student teaching. Failure to pass PRAXIS II will prevent recommendation for State certification. Candidates cannot be certified in the state of Pennsylvania without having passed these exams

*0 credits.*

### **EDUC 4115 Literacy Assessment and**

**Interventions:** Focuses on classroom literacy assessment and how it can be used to inform instruction. Students will conduct formative assessments essential to planning instruction, apply assessment information to design effective interventions, demonstrate strategic tutoring, and progress monitor students in line with identified needs. Prerequisites: EDUC 3180 and EDUC 3205. (Open to certification candidates only) *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

### **EDUC 4120 Creating Educational Materials:**

Assists students in preparing education materials related to curriculum units for use during student teaching. Students design and create classroom materials that meet recognized standards. *Fall and Spring, Workshop format, 1-3 credits. Fieldwork required.*

### **EDUC 4125 Language Acquisition:**

Designed for teachers of English Language Learners (ELLs). This course will develop knowledge and skills in the structure of the English language, grammar, and pronunciation, including lexical, morphological, syntax, phonological and pragmatic components. Literacy development for

second language learners and strategies to assist ELLs in the various stages of second language usage is covered. Prerequisites: EDUC 3210 and SPEC 3115 or instructor's approval. *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 4130 Assessment and Support for English Language Learners (ELL):** Designed to expand participants' knowledge of effective assessment practices and support services available for ELL students. Effective assessment practices, purposes for assessment, multiple assessment models, use of evaluation techniques, scaffolding of assessments, and formal/informal assessment tools will be discussed. Students will participate in hands-on experience in test administration, interpretation of results, and reporting and monitoring student progress.

**EDUC 4160 Electronic Media for Teachers:** Empowers the prospective teacher with hands-on knowledge and skills necessary for selecting, integrating, and applying a range of electronic media production technologies and projects in the elementary classroom to meet the diverse needs and dynamics of student learners and learning objectives. Prerequisite: IT 1115. *\$40 lab fee, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**EDUC 4165 Art Education Media and Methods/Secondary Methods:** With emphasis on teaching middle and secondary school students, teacher candidates will utilize presentations, field observations, interview, lectures, reflections, demonstrations, discussions and high school mini-teaching experiences to explore, develop and implement appropriate units and curriculum concepts using methods and models that reflect state and national standards in art education and also disciplinary approaches. Requires faculty consent. Prerequisite: EDUC 3150 3001. *Spring, \$75 lab fee, 3 credits. Fieldwork required.*

**EDUC 4710 Student Teaching Special Education (Pre-K – 8) Certification Degree:** Supervised, seven-week student teaching experience in a special education classroom under the guidance of a cooperating teacher and a college supervisor. The experience provides teacher candidates with teaching opportunities in classrooms for children with ability differences. Students should meet with Student Business Services as well as with the Financial Aid Office in advance of doing the student teaching experience. A student seeking dual certification in Special Education/ECE Education must also complete a 7 week ECE student teaching experience (See EDUC 4720 or EDUC 4727). Requires faculty consent. (Open to certification candidates only.) Teacher candidates may have to begin the student teaching experience prior to the start of the College semester due to opening dates of individual school districts. Applications for fall are due February 15. Applications for spring are due October 1. Prerequisite: EDUC 4001. *\$295 student teaching fee, 6 credits.*

**EDUC 4720 Student Teaching in Early Childhood Education (Pre-K – 2):** Supervised, two seven-week student teaching experiences under the guidance of a cooperating teacher and a college supervisor. For dual certification (special education and early childhood education), student teaching will take place in EDUC 4710 and either EDUC 4720 or 4725. Students should meet with Student Business Services as well as with the Financial Aid Office in advance of doing their student teaching experience. Requires faculty consent. (Open to certification candidates only.) Teacher candidates may have to begin the student teaching experience prior to the start of the College semester due to opening dates of individual school districts. Applications for fall are due February 15. Applications for spring are due October 1. Prerequisite: EDUC 4001. *\$295 student teaching fee, 6 credits.*

**EDUC 4725 Student Teaching in Early Childhood Education (Grades 2-4):**

Supervised, two seven-week student teaching experiences under the guidance of a cooperating teacher and a college supervisor. For dual certification (Special Education and Early Childhood Education student teaching will take place in EDUC 4710 and either EDUC 720 or EDUC 4727. Students should meet with Student Business Services as well as with the Financial Aid Office in advance of doing their student teaching experience. Requires faculty consent. (Open to certification candidates only.) Teacher candidates may have to begin the student teaching experience prior to the start of the College semester due to opening dates of individual school districts Applications for fall are due February 15. Applications for spring are due October 1. *.\$295 student teaching fee, 6 credits.*

**EDUC 4730 Student Teaching at the**

**Intermediate Level:** Supervised, seven-week student teaching experience in intermediate settings (grades 4, 5, 6) provide teaching opportunities to meet the needs of individual learners through differentiated instructional strategies and classroom management techniques. During this seven-week experience, candidates are expected to select and employ the methodologies and strategies modeled and practiced during the pre-practicum to meet the needs of all learners in the classroom. Students should meet with Student Business Services as well as with Financial Aid Office in advance of doing their student teaching experience. Requires faculty consent. (Open to certification candidates only.) Teacher candidates may have to begin the student teaching experience prior to the start of the College semester due to opening dates of individual school districts Applications for fall are due February 15. Applications for spring are due October 1. Prerequisite: EDUC 4001. *.\$295 student teaching fee, 6 credits.*

**EDUC 4735 Student Teaching at the**

**Middle Level (grades 4-6):** Supervised, seven-week student teaching experience under the guidance of a cooperating teacher and a college supervisor. Provides student teaching experiences for candidates who want to teach children in grades 4 through 8. The experience builds a solid foundation of child development for this age level. Candidates will develop lessons and demonstrate application during their student teaching experience. Students should meet with Student Business Services as well as with Financial Aid Office in advance of doing their student teaching experience. A middle level education student must do one student teaching experience in EDUC 4735 and EDUC 4740 (grades 7-8). Requires faculty consent. (Open to certification candidates only.) Teacher candidates may have to begin the student teaching experience prior to the start of the College semester due to opening dates of individual school districts Applications for fall are due February 15. Applications for spring are due October 1. Prerequisite: EDUC 4001. *.\$295 student teaching fee, 6 credits.*

**EDUC 4740 Student Teaching at the**

**Middle Level (grades 7-8):** Supervised, seven-week student teaching experience under the guidance of a cooperating teacher and a college supervisor. Provides student teaching experiences for candidates who want to teach children in grades 4 through 8. The experience builds a solid foundation of child development for this age level. Candidates develop lessons and demonstrate application during their student teaching experience. Students should meet with Student Business Services as well as with Financial Aid Office in advance of doing their student teaching experience. A middle level education student must do one student teaching experience in EDUC 4735 (grades 4-6) and EDUC 4740. Requires faculty consent. (Open to certification candidates only.) Teacher candidates may have to begin the student

teaching experience prior to the start of the College semester due to opening dates of individual school districts. Applications for fall are due February 15. Applications for spring are due October 1. Prerequisite: EDUC 4001. \$295 student teaching fee, 6 credits.

**EDUC 4745 Student Teaching at the Secondary Level (9–12):** Supervised, seven-week student teaching experience at the secondary level under the guidance of a cooperating teacher and a college supervisor. Included in the experience is the design and implementation of an integrated, thematic unit and the opportunity to use teacher feedback, video review, reflection, and self-evaluation as tools to improve teaching. Students should meet with Student Business Services as well as with Financial Aid Office in advance of doing their student teaching experience. A secondary education student must do one student teaching experience in EDUC 4745 and EDUC 4740 (grades 7-8). Requires faculty consent. (Open to certification candidates only.) Teacher candidates may have to begin the student teaching experience prior to the start of the College semester due to opening dates of individual school districts. Applications for fall are due February 15. Applications for spring are due October 1. \$295 student teaching fee, 6 credits.

**EDUC 4910 Seminar: Contemporary Research, Issues, and Ethics in Education:** Examines current research, current issues, and ethical dilemmas confronting educators. Students will analyze issues and practices and engage in examining ethical considerations through a case study methodology. Prerequisite: EDUC 3110 and 3001 (except Child and Family Studies majors) *Fall and Spring, 3 hours lecture and discussion, 3 credits. (Fieldwork required).*

## English

### **ENGL 0050 Critical and Analytical**

**Reading:** Teaches skills associated with annotating, mapping, summarizing, inferring, and critical thinking as they apply to the reading of college textbooks and supplementary material. (The credits for this course do not count toward graduation, but are factored into the student's GPA.) *Spring and Fall, 3 hours lecture and discussion, 2 credits.*

### **ENGL 1110 College Writing I: Academic**

**Writing:** Focuses on the writing process. Students complete a minimum of five expository essays, one of which is a comparison/contrast. An MLA-format research paper is also required and an introduction to 0 is provided. Workshops for peer editing and revision complement teacher/student interaction both in and outside the classroom. *Fall and Spring, 3 hours lecture, discussion, and peer review, 3 credits.* Students for whom English is not a primary language or whose placement tests indicate the need for individualized attention are assigned to sections of the course designed to meet those needs. *5 hours lecture, discussion, peer review, and/or language laboratory, 3 credits.*

### **ENGL 1125 College Writing II: Writing**

**about Literature:** Reinforces and enhances writing skills developed in English 1110. Writing assignments, including an MLA-format research paper, are based on the readings and discussions of selected fiction, drama, and poetry. Prerequisite: ENGL 1110. *Fall and Spring, 3 hours lecture and discussion, 3 credits.* Students for whom English is not a primary language or whose placement tests indicate the need for individualized attention are assigned to sections of the course designed to meet those needs. Prerequisite: "C" or higher in ENGL 1110. *5 hours lecture and discussion, 3 credits.*

**ENGL 2110 American Literature I:** Surveys American literature from Colonial times through the late nineteenth century with an emphasis on nineteenth-century authors. Readings will examine the cultural diversity and literary development exemplified by the Native American oral tradition and the works of a variety of writers. Extensive reading, writing, critical analysis, and library research are required. Prerequisite: ENGL 1125. *Fall, 3 hours lecture and discussion, 3 credits.*

**ENGL 2115 American Literature II:** Surveys American literature from the late nineteenth century through the present day. Emphasis is on writers who exemplify both our country's cultural diversity and the development of significant literary movements. Extensive reading, writing, critical analysis, and library research are required. Prerequisite: ENGL 1125. *Spring, 3 hours lecture and discussion, 3 credits.*

**ENGL 2120 Western World Literature I:** Surveys and analyzes selected works from the classical Greek period to the beginning of the Romantic Era. These selections are taught from a historical perspective, examining how the literature reflected and influenced the time in which it was written. Prerequisite: ENGL 1125. *Fall, 3 hours lecture and discussion, 3 credits.*

**ENGL 2125 Western World Literature II:** Surveys selected works of nineteenth- and twentieth-century authors who were instrumental in portraying thought and culture of Western civilization. Students study, discuss, and write about the connection between literature and Western world culture. Prerequisite: ENGL 1125. *Spring, 3 hours lecture and discussion, 3 credits.*

**ENGL 2145 Creative Writing:** Discusses general literary principles and representative works by leading writers and provides instructor-guided opportunities for students to write original short stories, poetry, and/or plays in a workshop setting. Students are encouraged to think creatively,

to solve problems, and to further develop and enhance writing skills. Prerequisite: ENGL 1125. *Spring, 3 hours lecture, instructor and peer review, and workshop, 3 credits.*

**ENGL 2155 Introduction to Poetry:** Studies the elements of poetic form, surveying a wide variety of poems representative of many eras and cultures. Students will learn to identify common poetic themes, techniques, and styles, and to analyze poems in written assignments. Prerequisite: ENGL 1125. *Fall, 3 hours lecture and discussion, 3 credits.*

**ENGL 2160 Introduction to the Novel:** Studies the structure of the novel and its thematic concerns as seen in representative novels from a variety of cultures, from the eighteenth century to the present. Students will learn to analyze the structure, techniques, and themes of the novels through discussion, research, and written assignments. Prerequisite: ENGL 1125. *Spring, 3 hours lecture and discussion, 3 credits.*

**ENGL 2165 Introduction to Dramatic Literature:** Studies drama as a literary form, including critical analysis of representative plays from classical Greek to contemporary drama. Students learn to identify and discuss dramatic elements, structure, style, and multi-cultural traditions in dramatic literature; and complete a research project. Prerequisite: ENGL 1125. *Spring, 3 hours lecture and discussion, 3 credits.*

**ENGL 3010 Special Topics in Creative Writing: Screenwriting:** Allows upper-level writing students to concentrate on a genre of particular interest. Focuses on the process and techniques for writing screenplays for feature films, with some attention to the business of screenwriting. Teaching methods include: lectures to introduce screenplay elements; discussions of assigned readings and films; in-class writing exercises; oral presentations; and work-shopping a variety of writing assignments. Introduces the tools of cinematic storytelling: dramatic structure, plotting,

methods of characterization, dialogue, script format, and the like. Discussion/workshop periods centers on assigned readings and your scripts.

**ENGL 3011 Special Topics in Creative Writing: Playwriting:** Allow upper-level students to focus on a genre of particular interest. Focuses on the role and work of the playwright. Teaching methods include: lectures to introduce elements of playwriting; discussions of assigned readings; in-class writing exercises; and work-shopping of play drafts. Explores the playwright's role in theatre, and introduces the playwright's tools: dramatic structure, dialogue, methods of characterization, script format, and the like. Discusses assigned readings of short plays. Review prewriting exercises designed to prepare you for out-of-class writing assignments. Students present workshops of work in progress and attend at least one live performance.

**ENGL 3012 Special Topics in Creative Writing: Creative Nonfiction:** Allows upper-level students to focus on a writing genre of particular interest. Focuses on what has come to be known as "the fourth genre" (after fiction, poetry, and drama): Creative Nonfiction. Also called "literary nonfiction," "New Journalism," the "literature of fact," and "gonzo journalism," creative nonfiction forms include personal essays, memoirs, autobiographies, biographies, profiles, books, and literary features about travel, food, nature, history, medicine, science, and the arts, as well as experimental forms that defy categorization. Covers philosophical, ethical, and legal issues associated with this genre. Introduces creative nonfiction forms and various aspects of writing; discussions of assigned readings, philosophical and ethical issues; in-class writing exercises; and workshops. Students listen to recordings or watch videos of exemplary creative nonfiction pieces from *This American Life*, and such NPR features as *Hidden Kitchens*.

**ENGL 3013 Special Topics in Creative Writing Fiction:** Focuses on the creative writing

genre of fiction, specifically the elements of narrative craft, character development, dramatic structure, dialogue, voice, point of view, conflict, and setting. Students read and discuss fiction by major authors and complete several short story assignments in and outside of class. Prerequisite: ENGL 2145.

**ENGL 3014 Special Topics in Creative Writing Poetry:** Focuses on the creative writing genre of poetry, specifically the elements of form, rhythm, tone, image, metaphor, and simile. Students read and discuss poetry by major writers and complete several writing assignments in and outside of class. Prerequisite: ENGL 2145.

**ENGL 3015 Great Themes in Literature: Nature and the Environment:** Explores the treatment of nature and the environment in a wide variety of literature, including poetry, non-fiction, short stories, and novels, primarily drawn from the past 200 years. Readings will represent a variety of cultures and points of view.

**ENGL 3016 Great Themes in Literature: Heroes and Heroines:** Focuses on the in-depth study of the theme, "Heroes and Heroines," as expressed in fiction, poetry, plays and film from a variety of periods and cultures. Studies the works in a more or less chronological order so that we are able to see how the concept and qualities of the hero/heroine change over time. This seminar-fashion course includes introductory lectures, a great deal of discussion, and presentations by class members. Course is designated as "writing-intensive," and includes various kinds of writing assignments, including: responsive (journals), scholarly (research and oral reports), and analytical (essays). Reading assignments normally will range from 50-60 pages per week.

**ENGL 3017 Great Themes: Utopian/Dystopian Lit:** Examines utopian and dystopian thought as they have emerged over the course of literary history, primarily from the past 200 years

and forward. Readings cover a variety of literary forms, including poetry, short stories, and novels, and a variety of cultures and points of view.

### **ENGL 3018 Great Themes in Literature**

**Food for Thought:** Focuses on the many ways food is used as a thematic element in novels, essays, poetry, and films representing a variety of cultures. Issues considered include: how food functions in real life and in the lives of fictional characters; food as a life-giving element; food as art; food as comfort; food as a means of communicating emotion; and the spirituality of food. Discovers how writers and directors from various cultures provide us with food for thought. Explores the many aspects of food in literature and film through reading, writing, and discussion. Main focus is on class discussion and reflective, creative, and scholarly writing. Students will share a meal together to celebrate the conclusion of the course. Course is classified as writing intensive, students complete four writing projects, including reading/response journals, a personal essay, a poem, and a short research paper.

### **ENGL 3019 Great Themes in Literature:**

**Political and Social Change:** Explores the treatment of political and social issues in a wide variety of literature, including novels, poetry, and a play, plus cinema. Readings represent diverse cultures and points of view.

### **ENGL 3020 Great Themes in Literature American Crime Fiction and Film Noir:**

Based on the texts of classic American crime writers such as Dashiell Hammet, James M. Cain, Raymond Chandler, and others. Much of this material was written in the 1930s. Film Noir, however, a cinema style from the 1940s through the mid- 1950s, was often based on these earlier novels and stories, and on what is considered “pulp fiction.” The changes from text to film make a decisive comment on Post World War II American society, culture, and film in terms

of the sudden appearance of German Expressionist lighting techniques and mise-en-scene, existential non-heroes, modernist narrative strategies, and femme fatales. Students read and discuss novels stories, and films based on the writing--in addition to viewing other important films of the genre.

### **ENGL 3021 Great Themes in Literature:**

**Isolation and Alienation:** Examines the themes of isolation and alienation as they have emerged over the course of literary history, primarily from the past 200 years and forward. Discusses and analyzes causes and effects, both negative and positive, a variety of literary forms, including poetry, short stories, and novels.

### **ENGL 3022 Great Themes in Literature:**

**Holocaust Literature:** The Holocaust is one of the most disturbing events in Western history and it still exerts an enormous pressure on our contemporary world through literature, the arts, media and philosophy. Looks at a variety of novels, films, internet sources, and testimony of survivors and expert witnesses and examines how the Holocaust has been represented in literature and film both while it occurred and after it ended. The course assumes no prior knowledge of Jewish history or customs, anti-Semitism, or the Holocaust itself. Provides an introductory literary understanding of these issues.

### **ENGL 3024 Advanced Study in Literature**

**Shakespeare and Film:** Examines in-depth selected plays of William Shakespeare. The philosophy behind this course is that because the plays were originally performed on the theater stage, and not read, a more comprehensive appreciation of each work can be obtained by not only reading the play texts but by watching filmed versions of performances. Since the beginning of the twentieth century we have had the advantage, for those not able to see the plays actually presented on stage, of being able to view filmed performances of the works, thus

giving the student a fuller and more thorough context closer to the original circumstances of how the plays were first presented.

### **ENGL 3025 Advanced Study in Literature**

**Dickens/Victorian:** Explores the worlds, both fictional and historical, of the English novelist, Charles Dickens (1812-1870). From the days of successfully publishing *Pickwick Papers* in 1836 until his sudden death in 1870, Dickens essentially owned the Victorian novel on both sides of the Atlantic. He was alternately imitated, pirated, loved, and reviled. Today, the term “Dickensian” has come to be a complicated literary compliment, a word that simultaneously declares an author to have a great gift and insinuates that he or she has yet to get the gift under control. Discovers how historical events of the Victorian Era influenced Dickens’ works and how Dickens’ works influenced society.

### **ENGL 3026 Advanced Study in Literature**

#### **Dante: A week in hell (The Divine Comedy):**

Explores the world of Dante Alighieri and his timeless and profound work *Commedia* (or *The Divine Comedy*, as it has come to be known). Examines the poem about the Christian afterlife: hell (the *Inferno*), purgatory (the *Purgatorio*), and paradise (the *Paradiso*). Looks at Dante’s life and the influences that brought him to write this great work. Studies not only the meaning of the various dramatic encounters that Dante has in this work, but also the relevance the poem has in today’s world.

### **ENGL 3027 Advanced Study in Literature:**

**Vonnegut:** Surveys the work of Kurt Vonnegut, focusing on five of his major novels, with attention to his relationship to postmodernism and the ways in which his work reflects post-World War Two American society, including its scientific, industrial, corporate, political, religious, and social contexts.

### **ENGL 3028 Advanced Study in Literature:**

**Jane Austen:** Devotes an entire semester to

selected works of a particular writer. Studies in-depth combining text and media, requiring students to read, discuss, analyze, and write about selected works from noted writers. Writers and selected works will vary from semester to semester. Prerequisite: ENGL 1125.

### **ENGL 3115 Children’s Literature:**

Explores the development of children’s literature in Western culture. A variety of types of children’s literature from classical fables and fairy tales through the Modern era will be discussed. Also included in this course is the development of standards for the selection of such literature for various age groups ranging from preschool through seventh grade. Prerequisite: ENGL 1125. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

### **ENGL 3120 Technical Writing:**

Examines the processes and procedures of researching, writing, and formatting technical documents. Assignments include instructions, audience analysis, usability testing, proposals, progress reports, recommendation reports and process descriptions. Prerequisite: ENGL 1125. *Fall, 3 hours lecture and discussion, 3 credits.*

## **Environmental Science**

### **ENVT 2110 GIS/GPS:**

Provides a hands-on introduction to the fundamentals of geographic information systems (GIS) and global positioning systems (GPS). Includes the processes of capturing, editing, storing, managing, and analyzing data using GIS as well as model development and information display. Addresses the techniques of collecting GPS data and using the data in GIS. Prerequisite: IT 1115. *Fall, \$65 fee, 3 hours lecture, 3 credits.*

### **ENVT 2115 GIS Applications, Select Topics:**

Explores geographic information system (GIS) applications and case-studies in areas such as homeland security, emergency planning and response, water resources, earth sciences,

interpolation techniques, forestry, and biological sciences. Each offering will focus on a specific topic. Consult current course offerings for each semester's topic. Prerequisite: ENVT 2110.

*Spring, 1 hour lecture and laboratory, 1 credit.*

**ENVT 2120 Environmental Ethics:** Introduces the basic concepts in ethics and major environmental ethical theories. Includes case studies of ethical debates of contemporary environmental issues. Prerequisites: BIOL 1120, BIOL 2120, or PHSC 1145 or consent of instructor. *Fall, 3 hours lecture and discussion, 3 credits.*

**ENVT 2125 Environmental Policy and Management:** Focuses on the major pieces of environmental legislation; the relationship between local, state, and federal agencies; industry responsibilities and options under existing law; the role of interest groups and the public in environmental decision making; and emerging issues at the national and international level. *Fall, 3 hours lecture and discussion, 3 credits.*

**ENVT 3105 Soils Science:** Introduces the various properties and classifications of types of soil. Acquaints the student with laboratory procedures to illustrate these principles by performing laboratory analyses, mathematical problems, and making observations from demonstrations and experiments. Provides the student with an understanding of soil as a component of the ecosystem and how to apply this knowledge to fully understand its impacts on ecosystems. Prerequisites: CHEM 1120 and GEOL 2110. *Fall, \$100 fee, 3 hours lecture and discussion, 3 credits.*

**ENVT 3115 Geospatial Methods in Resource Management:** Using existing understanding of GIS principles, students will focus on specialized data collections and use these data to complete spatial, 2D, and 3D analyses. Conducted within the focus of resource management, giving attention to current events affecting the region of northeastern Pennsylvania. Prerequisite: ENVT 2110 GIS/GPS.

**ENVT 3130 Environmental Law:** Examines the basic principles and fundamental laws and regulations that are part of what is commonly known as environmental law and natural resource law. Introduces environmental resource management professionals and other interested students to the environmental laws that are being implemented and enforced at the international, national, and state level. Special emphasis on environmental law and policy in Pennsylvania. Prerequisite: ENVT 2125 is recommended. *Spring, 3 hours lecture and discussion, 3 credits.*

**ENVT 3135 Hydrology:** Introduces basic principles and applied aspects of surface and ground water hydrology. Emphasis is on developing an understanding of watershed processes. Offers both conceptual and quantitative descriptions of the hydrologic cycle. A weekly three-hour laboratory introduces students to the techniques of applied hydrology. Prerequisites: MATH 1155, MATH 2115, GEOL 2110, and CHEM 1120. *Spring, \$100 fee, 3 hours lecture, 3-hour laboratory, 4 credits.*

**ENVT 4710P Environmental Resource Management Internship Preparation:** Prepares the student for the identification, placement, and successful completion of a 240-hour, six-credit internship required by the professional studies: environmental resource management B.S. curriculum. Prerequisite: Consent of curriculum coordinator. *Spring, 6 hours lecture and discussion, 0 credits.*

**ENVT 4715 Environmental Resource Management Internship:** Provides supervised exposure to the work environment and practical experience through a 240-hour internship at one or more pre-approved sites. The internship will typically be completed during the summer between the junior and senior years. Prerequisites: ENVT 4710 and consent of curriculum coordinator. *Fall, Spring and Summer, 6 credits.*

**ENVT 4110 Case Study Field Trip:** Examines case studies in environmental resource management through field trips and directed readings. Travel during weekends and/or spring break will be required. The student is responsible for the cost of meals, lodging, transportation, and incidentals.) Prerequisites: BIOL 3135, ENVT 3125, and GEOL 2110; or consent of instructor. *Spring, \$100 fee, 1 credit.*

**ENVT 4910 Watershed Resource Management:** Fulfills the senior capstone experience requirement for students enrolled in the Bachelor of Science in Professional Studies: Environmental Resource Management program. This course includes senior research projects and case study of the Tunkhannock Creek watershed. Consent of curriculum coordinator required. *Spring, \$100 fee, 3 hours lecture and discussion, 3 credits.*

## ESL Connection

**ESL Connection 0050 Advanced Academic Writing/TOFEL Preparation:** Serves as a pre-English 1110 writing class emphasizing appropriate organization and style for a variety of academic writing situations. Emphasis is on grammar, vocabulary, and rhetorical styles. The course covers aspects of the TOFEL that will help students become better writers as well as achieve the TOFEL score needed to be full accepted by the College. This is a developmental course. Credits earned do not count toward graduation. *5 hours lecture and workshop, 3 credits.*

**ESL Connection 0051 Academic Success Reading Seminar:** Uses reading as a basis for discussion, debate and individual presentations. Students will increase vocabulary and reading speed in addition to practicing how to interact in U.S. classroom discussion and how to prepare and make presentations. The course meets five hours per week. Credits earned do not count toward graduation. *5 hours lecture and workshop, 3 credits.*

## Experiential Learning

**EXPL 2110 (fall), 2115 (spring), 2120 (summer):** A supervised period of practical work experience integrated into the academic program. The purpose of the program is for the student to apply classroom principles in real-work situations. Each practical work experience, including experiences for more than 3 credits, will only satisfy one graduation requirement. Prerequisites: 15 completed credits, 2.00 GPA, and consent of instructor. *Fall, Spring, and Summer, 40 hours practicum = 1 credit, 6 credits maximum.*

## Film

**FILM 1110 Introduction to Cinema:** Introduces the concepts of filmmaking, including production organization, techniques of pre-production, principal photography, post-production, and literary and philosophical concepts of messages in film texts. Students view films, write analyses, and create outlines and projects demonstrating understanding of the vocabulary of filmmaking. *Fall, 4 hours lecture and discussion, and screening, 3 credits.*

**FILM 3005 Special Topics in Film:** Examines a variety of themes, genres, and/or concepts in feature films. Students view films, write analyses of the films, and actively research concepts discovered through class discussion. Students are expected to understand the interaction between film as a medium and the topics being studied. Prerequisite: ENGL 1125. *Spring, 4 hours lecture, discussion, and screening, 3 credits.*

## First Year Seminar

**FYS 1110 The First Year Seminar:** First Year Seminar is designed to help first-year students understand the new challenges, unique values and opportunities of Keystone College. Emphasis will be placed on introducing students to the institutional learning goals; service learning per-

spective, writing intensive perspective, diversity perspective, global perspective, environmental sustainability perspective, and independent and self-directed learning perspective. *2 hours lecture and discussion, seminars, 2 credits.*

## Geography

### **GEOG 1110 Introduction to Geography:**

Surveys the field of geography including introductory concepts, geographic issues, and the geography of world regions with particular emphasis on North America and its sub regions. *3 credits.*

**GEOG 3110 Cultural Geography:** Explores the interaction between environment and culture.

Investigates geographical processes and culture patterns such as language, religion, politics, rural and urban land use, economic development, globalization and the spread of technology. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

## Geology

### **GEOG 2011 Earthquakes and Volcanoes**

**(formerly BIOL 2251):** Provides an overview of the scientific principles and social impacts behind some of the world's most powerful natural disasters. Earthquakes and volcanoes are poorly understood by the general public and the course provides students with the knowledge needed to interpret current events and hazards based on the best available science. *3 credits.*

### **GEOG 2110 Physical Geology (formerly**

**PHSC 2110):** Studies the structure of Earth and the physical and chemical processes that formed it. Topics include mineral and rock properties and classification; igneous, metamorphic and sedimentary processes; plate tectonics; weathering; erosion; glaciations; landforms; and deep time. Emphasizes local geology and field activities. A two-day field trip, for which an extra fee is collected, is required. This course is intended for students majoring in the sciences. *Fall, \$100 fee, 3*

*hours lecture, 3-hour laboratory, 4 credits.*

### **GEOG 2115 Earth Systems History (formerly**

**PHSC 2115):** Introduces the geological history of biodiversity and the influence of changing Earth systems on the evolution of the biosphere. Topics include planetary formation, origin of life, atmospheric evolution, plate tectonics, and macro-evolutionary history. *Spring and Weekender, 3 hours lecture and discussion, 3 credits.*

### **GEOG 3110 Petroleum Geology (formerly**

**PHSC 3110):** Introduces the processes that lead to the generation and accumulation of petroleum and natural gas and the basic techniques of gas and petroleum exploration.

### **GEOG 3115 Structural Geology (formerly**

**PHSC 3115):** Studies how rocks are deformed through tectonic processes. Focuses on the variety of landforms that are created by the constant motion of Earth's plates. Satellite imagery, computer visualizations, and data collected on weekly field trips will be used to understand the origins of mountain ranges, continental rifts, and a variety of other geologic formations. *Fall, \$100 fee, 3 hours lecture, 3 hour laboratory, 4 credits.*

### **GEOG 3120 Mineralogy:**

Examines minerals, their structure, properties, and origins. Introduces students to a wide variety of rock-forming minerals primarily through the use of a petrographic microscope. This piece of equipment uses cross-polarized light to highlight minerals' unique properties, while allowing students to investigate the origins and internal structure of rocks. Not only does this course teach students to identify various minerals, but also identify and explain many of the processes that were integral in its formation. Some of these processes include growth rates, metamorphism, as well as a variety of alteration and weathering. Builds upon the foundation of introductory courses such as mineralogy and prepares students to take Petrology the following semester. *Fall, \$100 fee, 3 hours lecture, 3 hour laboratory, 4 credits.*

**GEOL 4110: Igneous and Metamorphic Petrology:** Introduces the processes that produce the chemical and mineralogical diversity of igneous and metamorphic rocks and develops rock description and classification skills. Prerequisite: GEOL 3120. *Spring, \$100 fee, 3 hours lecture, 3 hour laboratory, 4 credits.*

## History

### **HIST 1110 The Making of the Modern**

**World:** Examines the social, political, and economic origins of the modern world from 1900 through the Cold War. Special emphasis is placed on the impact of colonialism, WWI, Communism, Fascism, WWII, and the Cold War. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**HIST 1115 Western Civilization:** Studies the establishment and progress of civilization. Topics include Greek, Roman, medieval civilizations, and the beginnings of modern times through the seventeenth century. *Spring, 3 hours lecture and discussion, 3 credits.*

**HIST 1130 United States History I:** Examines the colonial, revolutionary and national history of the United States from the 16th Century through the Civil War. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**HIST 1135 United States History II:** Studies American history from Reconstruction through the present time. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**HIST 3110/POSC 3115 Civil Rights in America:** Examines the history and politics of the black civil rights movement from Reconstruction to the present. The contemporary civil rights issues of gender, sexual orientation, and affirmative action will also be considered. HIST 1135, POSC 1110, or POSC 2110 are recommended prior to taking this course. *Spring, 3 hours lecture and discussion, 3 credits.*

**HIST 3115/POSC 3125 United States History Since 1945:** Provides an in-depth examination and critical analysis of the political, cultural, social, and economic trends that shaped the contemporary American perspective. HIST 1130 or 1135 recommended prior to taking this class. *3 hours lecture and discussion, 3 credits.*

**HIST 3120 History of the Civil War:** Examines the causes, course and consequences of the American Civil War, from the 1840s to 1877.

## Hospitality Management

**HOSP 1110 Basic Food Production:** Provides basic knowledge of the composition of food and the changes that occur during the cooking process, including sanitation application, classical sauce and soup making, knife procedures, cooking methods, equipment identification, and production methods. *Spring, \$120 lab fee, 1 hour lecture and discussion, 6 hours laboratory, 3 credits.*

**HOSP 1135 Introduction to Hotel and Restaurant Management:** Describes different event management perspective within various hospitality organizational structures such as; hotels, restaurants, clubs, cruise ships, conference & convention centers, boutique venues, and casinos. Identifies the role of event managers as they interact with the visitor's bureau, chamber of commerce, and other non-for-profit sectors. Explore various job opportunities within the hospitality industry. *Fall.*

**HOSP 1140 Food and Labor Cost Control:** Comprehension of the techniques of control used in food service management to show the relationship of food and labor costs to selling prices, cost control procedures for menus, purchasing, receiving, sorting, issuing, production and revenue controls. Menu and portion costings, preparation of daily reports to management. Gross and net dining room and cafeteria cost percentages as used in the food service

industry. Preparation of butcher tests, precost, precontrol techniques, inventory turnover and controls, monthly reports and adjustments. *Fall, 3 hours lecture and discussion, 3 credits.*

**HOSP 1165 Food Service Sanitation:** Comprehension of food-borne illness, food preparation, equipment procedures, personal hygiene, and OSHA and HACCP regulations. Mandatory completion of certification is offered by the Educational Institute and the National Restaurant Foundation. *Fall, 2 hours lecture and discussion, 2 credits.*

**HOSP 1170 Nutrition:** Analyzes the functions and food sources of nutrients; nutrient utilization in human metabolic processes; and the application of nutrition to critical periods throughout the life span. Introduces food composition and guidelines used in the assessment of food practices such as the Recommended Dietary Allowances, and the United States Department of Agriculture Food Guide. Guides students through the development of their own diet plan as determined by their suggested weight for optimum health. *Fall, 3 hours lecture and discussion, 3 credits.*

**HOSP 2115 Bar and Beverage Management:** Provides students with the practical knowledge needed to manage a bar or beverage operation. Presents principles and theories to support and reinforce the practical aspects. Certificates are awarded through the PLCB-RAMP and Health Communications - T.I.P.S. *Spring, \$75 fee, 3 hours lecture, lab, and discussion, 3 credits.*

**HOSP 2130 Meeting and Convention Planning:** Introduces the meeting and convention industry. Discusses both traditional and current trends. Instructs in the basic framework for planning a meeting, convention, or exposition. Students will assist in planning either one on-campus or off-campus event. *Fall, 3 hours lecture and discussion, 3 credits.*

**HOSP 2135 Purchasing for Hospitality Industry:** Discusses the principles and techniques of purchasing both food and non-food supplies applicable to the food industry. Purchasing ethics are discussed in addition to specifications for all items. Location and arrangement of equipment for efficient utilization of space and development of work flow patterns to meet operational requirements. *Fall, 3 hours lecture and discussion, 3 credits.*

**HOSP 2145 Hospitality Law:** Studies the legal risks and liabilities of hotel and restaurant operators, including innkeeper and guest, landlord and tenant, liquor, sanitation, labor and other laws applicable to hotel and restaurant operations; insurance coverage for the protection of hotel and restaurant operators from the various liabilities inherent to these types of operations; and safety measures necessary to protect guests and employees from legal harm. *Spring, 3 hours lecture and discussion, 3 credits.*

**HOSP 2150 Hotel and Lodging Operations:** Discusses the fundamentals of front office procedures including receiving guests, public relations, cash control and accounting techniques, night audit, mail handling, security, sales efforts, and emergency procedures. *Spring, 3 hours lecture and discussion, 3 credits.*

**HOSP 2155 Executive Housekeeping and Maintenance:** Discusses various housekeeping functions within the hospitality industry, including the duties of the executive housekeeper in the areas of equipment, materials and techniques of housekeeping; production standards, selection, care and use of linens; and staffing, maintenance of physical facilities. *Spring, 2 hours lecture and discussion, 2 credits*

**HOSP 2170 Hospitality Operations I:** Based on the management principles of controlling, planning, organizing, staffing, and leading within the hospitality industry. Includes marketing, menu development, purchasing, receiving, and

storage of food, beverage service, reservations, dining room management, and kitchen management. Students will demonstrate job-related skills, self-discipline, group dynamics, and time management through various team projects.

*Fall, \$25 fee, 3 hours lecture and discussion, 3 credits, minimum 40-hours practicum.*

## **Human Resource Management**

### **HRM 1110 Introduction to Human Resource Management:**

Provides an overview of the field of human resource management, including the history of human resource management and its evolution to the present. Discusses the internal and external environments shaping human resource management and its evolution from an operational role to that of a strategic business partner. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

### **HRM 2110 Employment Law:**

Covers laws and legal issues which have an impact on various human resource functions such as recruitment, selection, compensation and performance evaluation. Covers the Americans with Disabilities Act, Family Medical Leave Act, Equal Employment Opportunity, and Affirmative Action. Provides an introduction to the legal environment related to employment. Prerequisite: HRM 1110. *Spring, 3 hours lecture and discussion, 3 credits.*

### **HRM 3115 Health, Safety, and Security:**

Familiarizes students with federal and state agencies, and laws and regulations that govern employee safety. Covers employer policies and practices dealing with ensuring a safe work environment for employees. Provides an overview of the laws and regulations with regards to providing a safe working environment for employees. Prerequisite: HRM 1110. *Fall, 3 hours lecture and discussion, 3 credits.*

**HRM 3120 Selection and Placement:** Examines the external and internal environments cru-

cial in the employee selection process. Discusses the skill of forming matches between people and jobs that results in an effective workforce.

Provides an overview of various methods of selecting and placing employees in an organization. Prerequisite: HRM 1110. *Fall, 3 hours lecture and discussion, 3 credits.*

### **HRM 3125 Compensation and Benefits:**

Covers various compensation systems including policy formulation, internal/external equity, and legal requirements. Examines methods of job analysis, writing job descriptions, determining pay structures, and conducting salary surveys. Examines legal and voluntary benefit plans including Social Security, pension, health, and the Family Medical Leave Act. Provides an overview of issues relating to compensation and benefits. Prerequisites: HRM 1110 and IT 1115. *Fall, 3 hours lecture and discussion, 3 credits.*

### **HRM 3130 Labor Relations:**

Provides an introduction to industrial and labor relations. Discusses the development of the American labor movement, labor law, and collective bargaining agreements and negotiations. Provides an overview of unions and laws and regulations governing them. Prerequisite: HRM 1110. *Spring, 3 hours lecture and discussion, 3 credits.*

### **HRM 3135 Human Resource Planning:**

Surveys the methods of selecting and planning for human resource needs at the organizational and individual level. Covers external scanning, SWOT analysis, strategy development, operational planning, and evaluation. Provides an understanding of the importance of the planning function as well as methods for carrying out the planning function. Prerequisite: HRM 1110. *Spring, 3 hours lecture and discussion, 3 credits.*

### **HRM 3140 Training and Development:**

Explores the training process including conducting needs assessments, training design, implementation, and evaluation. Examines theoretical and applied principles of adult learning. Researches,

creates and presents a training session to students' competency as trainers. Provides an in-depth review and practice of various facets of the training function. Prerequisite: HRM 1110. *Spring, 3 hours lecture and discussion, 3 credits.*

#### **HRM 4110 Organizational Development:**

Examines organizational culture and its social processes to provide a background for planning systematic change to improve organizational effectiveness and performance. Examines and discusses various models to provide a method for improving the organizational operations as well as maintaining employee morale issues. Examines various methods of conducting change efforts within organizations. Prerequisites: HRM 1110 and senior status for HRM students or consent of the instructor. This is an on-line course. *Fall, 3 hours lecture and discussion, 3 credits.*

## **Human Services**

**HSER 2115 The Helping Relationship:** Introduces the essential components of a helping relationship and assists the student in developing the skills of helping (i.e., observation, recording of behavior, direct intervention with clients, effective communication, and self-assessment). *Fall, 3 credits, 3 hours lecture and discussion.*

#### **HSER 2120 Human Services Systems:**

Provides students with an orientation to the systemic functioning of human services programs. Emphasis is on program development and evaluation, funding opportunities, governing regulations, and the range of services provided to children and families. Prerequisite: HSER 2115. *Spring, 3 credits, 3 hours lecture and discussion.*

**HSER 4710 Field Experience:** Provides students with a 120-hour placement in a human services agency related to the student's area of interest (i.e., education, children and youth, criminal justice settings). Prerequisites: HSER 2115 and HSER 2120. *Fall and Spring, 3 credits, 120 hours.*

## **Independent Study**

**1--, 2--, 3--, or 4-- Independent Study:** Independent study courses are offered in all disciplines. They provide students the opportunity to use their initiative to go beyond the boundaries of normal classroom learning. Student projects or research must be planned in conjunction with a cooperating instructor and must receive final approval from the Dean of Academic Affairs. Independent study courses are available to students after the first semester of study. They may be taken on a pass/fail or a letter-grade basis. If the pass/fail option is chosen, passing grades must be the equivalent of "C" or better. Credits assigned to an independent study project are variable and depend on the amount of work entailed in the project. Students must have final approval prior to registering for the independent study course.

## **Information Technology**

#### **IT 1110 Introduction to Information**

**Technology:** Introduces information technology concepts including data management and structures, networks, Internet, data communications, application development, and logical design methods. *Fall, 3 hours discussion, demonstration, and hands-on assignments, 3 credits.*

**IT 1115 PC Office Applications:** Provides an introduction to computer software packages used in business-related applications. Focus will be placed on the development of skills using Windows®, word processing, spreadsheets, presentation applications, the World Wide Web, and other common application packages. *Fall and Spring, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

#### **IT 1120 Introduction to Programming:**

Introduces microcomputer object-oriented programming utilizing Visual Basic for applications programming language, structured programming techniques, and program code utilizing event-

driven programming. Prerequisite: IT 1110. *Spring, 3 hours discussion, demonstration, and hands-on assignments, 3 credits.*

**IT 1130 Web Programming I:** Provides the tools and knowledge necessary to design and manage a World Wide Web site. Students will learn how to use a text editor to create content for the World Wide Web. The capstone of the course is the design of a fully functional Web site by each student. *Fall, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 1135 Web Programming II:** Continues the concepts of IT 1130. Students will learn how to create and manage content for the World Wide Web using cascading style sheets, Java Script language, and Extensible Markup Language (XML). The capstone of the course is the design of a fully functional student portfolio. Prerequisite: IT 1130. *Spring, \$40 fee, 3 hours discussion, demonstration, and hands-on assignments, 3 credits.*

**IT 2110 Intermediate PC Office Applications:** A continuation of IT 1115 with advanced study of computer software packages used in business-related applications. Focuses on the advanced applications and functions of word processing, spreadsheet, database, and presentation applications. Hands-on course activities include integration of programs and programs with the World Wide Web. Prerequisite: IT 1115 or instructor consent. *Fall and Spring, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 2115 Database Management Systems:** Studies management, file, and data structures involved in the design, implementation, and use of a database management system. A focus is made on introductory structured query language (SQL) scripting. Topics include file organization, data structures, program development, and security of data in creating, maintaining, and accessing relational databases. Prerequisite: IT 1110. *Fall, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 2120 Database Management Systems II:** A continuation of IT 2115 with advanced topics of design, implementation, and use of database management systems. Involves skills in the design and development of information systems and their application and combines form and report components into a single integrated system. Prerequisite: IT 2115. *Spring, \$40 fee, 3 hours discussion, demonstration, and hands-on assignments, 3 credits.*

**IT 2140 Spreadsheets and Databases:** Introduces computer software packages used in business-related applications. Focuses on the development of skills and knowledge for the use of spreadsheets and databases applications. Emphasizes the use of formulas, functions, and graphs in spreadsheets and the use of tables, queries, forms, and reports in databases. Prerequisites: IT 1115 or similar. *Spring, \$40 fee, 3 hours discussion, demonstration, and hands-on assignments, 3 credits.*

**IT 2165 Networking I:** Introduces software and hardware requirements needed to be able to communicate across a network. Studies the structure and technologies of computer networks, transmission of signals, topologies associated with cabling, Ethernet media access techniques, collision and broadcast domains, and mechanics of IP addressing. Discussion, laboratory assignments, skills-based assessment, and presentations are required. *Fall, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 2170 Networking II:** Provides a continuation of the software and hardware requirements to be able to communicate across a network. Topics include distance vector and link state routing theory, routing loop issues, routing concepts, TCP/IP theory, network packet analysis, and IP addressing. Discussion, assignments, skills-based assessment, and presentations are required. Prerequisite: IT 2160. *Spring, \$40 fee, 3*

*hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 3110 Advanced PC Office Applications:**

Continues the concepts in IT 2110 and covers advanced topics within word processing (Word), spreadsheets (Excel), and database concepts (Access). Topics include development of on-screen forms, macros, advanced table techniques, and management of long documents through cross-referencing, indexes, and tables of contents. Students learn advanced spreadsheet techniques including problem solving, scenario management, importation of data, and automation techniques using macros and visual basic code. Hands-on lab activities provide exposure to business applications to prepare students for business and industry usages. Prerequisite: IT 2110. *Spring, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 3115 Electronic Commerce:** Examines the history of the Internet and the World Wide Web, technologies for e-commerce, business strategies for Internet marketing and advertising business opportunities in a global market, legal issues, and the role of e-commerce in our economy and society. Case studies and business examples complement conceptual coverage to provide a real-world context. *Fall, \$40 fee, 3 hours discussion, demonstration, and hands-on assignments, 3 credits.*

**IT 3125 Programming with Scripting**

**Languages:** Introduces scripting technologies used in the development of Web sites. With a focus on PHP students will work with arrays, loops, condition statements, event modeling and dynamic content. Students will be required to develop a fully functional Web site upon completion of this course. Prerequisites: IT 1130 and IT 1135. *Spring, \$40 fee. 3 hours discussion, demonstration, and hands-on assignments, 3 credits.*

**IT 3130 Business Programming I:** Introduces object-oriented programming and creation of the projects using Visual Basic and the Vi-

sual Studio IDE. Topics include form design, logical decisions, and creation of classes, with an introduction to data objects. Prerequisites: MATH 1125 or similar and IT 1110. *Fall, \$40 fee, 3 hours discussion, demonstration, hands on assignments, 3 credits.*

**IT 3135 Business Programming II:** Provides topics in object-oriented programming including integration with database technology. Student build on skills acquired in IT 3130 and focus on exception handling, error-trapping and advanced condition statements. Students will create a fully integrated project upon completion of this course. Prerequisites: IT 3130. *Spring, 3 hours discussion, demonstration and hands-on assignments, 3 credits.*

**IT 3145 Human Computer Technology:**

Considers theories and current topics of human-computer interaction, including types of interfaces, techniques for designing interfaces, methods for evaluating interface success (usability testing), and principles of accessible design. *Spring, 3 hours lecture and hands on assignments, 3 credits.*

**IT 3330 Ethical & Societal Concerns in Information Technology:**

Explores the social, ethical, and legal implications related to computer technology in our society. Focuses on extensive and topical coverage of issues such as file sharing, infringement of intellectual property, security risks, cyber crime, employee surveillance, privacy and compliance. Students gain a well-developed foundation for ethical decision-making as current or future Information Technology leaders. Discussion, assignments, skills-based assessment, and presentations are required. Prerequisites: IT 1101. *Fall, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 4205 Project Management:** Provides an understanding of what project management means

and how it improves the success of information technology projects. Topics covered include the triple constraint of project management, the project life cycle, work breakdown structures, network diagrams, cost estimates, critical path analysis, critical chain scheduling, quality control, motivation theory, risk management, and team building. Prerequisite: IT 3130. *Fall, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 4220 System Analysis and Design:** Studies the analysis and design of information processing systems. Emphasis is placed on the tools and techniques during each phase of the systems development life cycle. A team approach will be utilized using CASE tools to analyze and design a system for business-related problems. Prerequisite: IT 3130. *Fall, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 4240 Business Programming III:** This is an advanced course in using object-oriented programming concepts with C#. Topics include object-oriented programming, class construction, overloading, serialization, inheritance, abstraction, polymorphism among other software component development methods. The course demonstrates an approach which can be used as a template and starting off point for other C++ applications and uses case study modeling. Prerequisite: IT 326. *Fall, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 4245 Business Programming IV:** Provides in-depth coverage of object-oriented programming principles and techniques using C++. Topics include classes, overloading, data abstraction, information hiding, encapsulation, inheritance, polymorphism, file processing, templates, exceptions, container classes, and low-level language features. The course also relates C++ to GUI, databases, and real-time programming. Prerequisite: IT 4240. *Spring, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

### **IT 4910 Current Topics in Information**

**Technology:** Explores in detail the historical perspective, current issues and trends, and future development in the field of information technology. The role of information technology in the various areas of industry, business, and education, will be examined and discussed. *Spring, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 4255 Advanced Networking:** Provides students with the knowledge and skills necessary to plan and maintain a modern network infrastructure. Provides in-depth, hands-on training on current network devices to prepare students for networking decisions in current industry environments. Prerequisite: IT 2170. *Spring, \$40 fee, 3 hours demonstration, discussion, and hands-on assignments, 3 credits.*

**IT 4710 Information Technology Internship:** Offers students opportunities for work experience in an information technology field. Prerequisite: open to senior information technology majors only. *Fall and Spring, 40 hours practicum equals 1 credit, 1 - 6 credits.*

## **Interdisciplinary Studies**

**IDS 0052 Success Group:** Designed to assist Keystone College students who have been placed on academic probation for the semester. Instructors will meet weekly with the student individually or in a group setting to promote academic improvement. Attendance is mandatory. *1 hour lecture and discussion, 0 credits.*

## **Journalism**

### **JOUR 1110 Introduction to Journalism:**

Discusses journalistic reporting, interviewing, writing, and editing. In class writing and participation in preparing the student newspaper, *The Key*, are required. Basic journalistic skills and principles are also introduced. *Fall, 3 hours lecture and discussion, 3 credits.*

**JOUR 2110 Feature Writing:** Examines techniques for researching, writing, and marketing feature articles for newspapers and magazines. Topics may include personal experience, profile, how-to, and other features. Prepares students to work as freelance or staff feature writers. *Spring, 3 hours lecture and discussion, 3 credits.*

**JOUR 3110 Broadcast Writing:** Focuses on the principles and the process of writing, informative, persuasive, news, and public affairs copy for radio and television, with special emphasis placed on script formats and writing for the eyes and ears. Prerequisites: ENGL 2135 or ENGL 2140, or consent of instructor. *Fall, 3 credits, 3 hours lecture and discussion.*

**JOUR 3115 Women in Journalism:** Examines the roles, status, and experiences of American women journalists determined to gain respect in a male dominated profession. Issues of gender, sexism, and discrimination have plagued women journalists in all mediums including print, online radio, and television. Theories as to why women are faced with such obstacles will be explored, as well as a comprehensive analysis of women journalists from the 1800's to present day. *3 hours lecture and discussion, 3 credits*

**JOUR 3120 Advanced News Writing:** A more advanced version of Journalism 1110 and Feature Writing 2110, emphasizes in-depth reporting of investigative pieces, hard news, feature stories, and online journalism. Students will master techniques in gathering and writing the news and good reporting and news writing. *3 hours lecture and discussion, 3 credits.*

**JOUR 3330 Journalism Ethics:** Examines the written and unwritten code of ethics as practiced by members of working journalists. Familiarizes students with common ethical issues and dilemmas facing working journalists today. Attention given to issues concerning conflicts of interest, privacy rights, fairness, and taste. *3 hours lecture and discussion, 3 credits.*

## Leadership

### **LEAD 1110 Foundations of Leadership**

Examines a broad range of leadership concepts, theories, and models. Students will understand the need for effective leadership within all personal and professional environments. The course examines current thinking about the concept of leadership. It is intended for people who aspire to improve their leadership skills and knowledge or who anticipate working with others within the socio-cultural systems of the world. Provides the basic knowledge and the foundations required to satisfactorily complete subsequent leadership courses. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**LEAD 2110 Team Building:** Focuses on the tools and techniques needed to tackle, create, inspire, and sustain teams. Exposes students to team-building strategies and to a variety of concepts and practices associated with developing and managing effective teams. Different approaches to management, motivation, and performance are included, along with barriers to effective team efforts. *3 hours lecture and discussion, 3 credits.*

**LEAD 3110 Profiles in Leadership:** Engages students in a comprehensive study of leaders, current and in the past. Explores practical examples of leadership and compare and contrast leadership styles, traits, behaviors, and effectiveness through leaders' biographies. Particular attention is given to examining leadership styles. *Fall, 3 hours lecture and discussion, 3 credits.*

**LEAD 3115 Civic Responsibility:** Examines theories related to community and civic responsibility, leadership, and social issues. Students will develop an understanding of their own moral and civic duties as individuals and leaders within their communities. Emphasizes the importance of civic responsibility in solving social problems and leading change. Students will develop a personal philosophy for civic responsibility and

demonstrate their commitment to community involvement. *Fall, 3 hours lecture, discussion and projects, 3 credits.*

**LEAD 4110 Leadership Strategies:** Examines current supervisory and leadership perspectives and practices as they relate to the knowledge and skills needed within contemporary organizations. Illustrates the complexities of guiding and leading a work force in today's global society through the exploration of theoretical models and real-life experiences.

### **LEAD 4910 Dynamics of Leadership**

**Application:** Offers practical application of the knowledge and skills developed in prior studies of leadership. Students, individually, will synthesize and evaluate the leadership knowledge and performance of themselves. Examines the evolution of leadership thought, the various methods of improving leadership performance through analytical decision-making, and current issues in leadership. Prerequisite: LEAD 1110. *Spring, 3 hours lecture and discussion, 3 credits.*

## **Mathematics**

**MATH 0050 Basic Algebra:** Investigates real number operations, exponents, linear equations and inequalities, polynomials, factoring, rational expressions and equations, and verbal applications. Emphasizes drill in computational algebra. This course does not count as a Math/Science elective. This is a developmental course, Credits earned do not count toward graduation. *Fall, Spring, and Summer, 3 hours lecture and discussion, 3 credits.*

**MATH 1125 College Algebra:** Expands upon basic algebraic concepts to include systems of equations and inequalities, radicals, complex numbers, linear and quadratic functions and their graphs, and logarithms. Prerequisites: one year of high school algebra, or MATH 050 with a grade of "C" or better. *Fall, Spring, and Summer, 3 hours lecture and discussion, 3 credits.*

**MATH 1135 Trigonometry:** Investigates angles, triangles, trigonometric functions and equations, radian and degree measurements, circular functions, graphs, identities, vectors, complex numbers, polar coordinates, parametric equations, and applications. Prerequisite: MATH 1125 with a grade of "C" or better or two years of high school algebra. *Fall, 3 hours lecture and discussion, 3 credits.*

**MATH 1140 College Mathematics:** Investigates set theory, number theory, modular systems, probability, and an introduction to statistics. Emphasizes problem solving in finite mathematics. Prerequisites: one year of high school algebra. *Fall, Spring, and Summer, 3 hours lecture and discussion, 3 credits.*

**MATH 1150 College Mathematics: II:** Investigates topics in logic, basic algebra, geometry, and ad trigonometry. Optional topics may include personal financial management, graph theory, and voting and apportionment. Prerequisites: one year of high school algebra. Note: MATH 1140 is not a prerequisite of MATH 1150 and MATH 1150 can be taken prior to MATH 1140. *Fall, Spring, and Summer, 3 hours lecture and discussion, 3 credits.*

**MATH 1155 Pre-Calculus:** Designed to prepare students for calculus. Investigates fundamentals of analytical geometry, conic sections, and functions: polynomial, rational, exponential, logarithmic, and trigonometric. Prerequisites: two years of high school algebra or MATH 1125 with a "C" or better, or consent of the instructor. (Not open to students who have passed Calculus courses with a "C" or better.) *Fall, Spring and Summer, 4 hours lecture and discussion, 4 credits.*

### **MATH 2110 Mathematics Throughout**

**History:** Investigates the history of mathematics, reviews contributions by various cultures, and ponders famous mathematical problems. Topics to be chosen from include ancient mathematics, mathematics in Greece, medieval China, and

India, medieval Europe, mathematics of Islam, and mathematics around the world. Prerequisite: two years of high school algebra or MATH 1125 with a “C” or better. *Fall and Spring, 3 credits, 3 hours lecture and discussion.*

**MATH 2115 Statistics:** Introduces frequency distributions and graphs, measures of central tendency and variation, counting techniques, probability, binomial distribution, normal distribution, confidence intervals, hypothesis testing, correlation, and regression. Emphasizes practical applications. Prerequisites: two years of high school algebra. *Fall, Spring and Summer; \$65 fee; 3 hours lecture and discussion, and laboratory work*

**MATH 2120/PSYC 2140 Statistics for the Social Sciences:** Introduces the analysis of data using descriptive and inferential statistics, including: central tendency, variability, and distribution shape; correlation, regression, and chi-square; and t-tests and ANOVA. Sampling error, hypothesis testing, significance levels, Type I Error, Type II Error, and power will be discussed. Prerequisites: PSYC 1110 and MATH 1125 or equivalent. *4 credit hours, 4 contact hours.*

**MATH 2150 Calculus I:** Investigates inequalities, limit theorems, continuity, derivatives of rational functions, chain rule, related rates, relative and absolute extrema, graphical and verbal applications, the fundamental theorems of calculus, area between curves, and the central conics. Prerequisites: four years of high school mathematics including Algebra II and Trigonometry, MATH 1155 with a grade of “C” or better. *Fall, Spring and Summer, 4 hours lecture and discussion, 4 credits.*

**MATH 2155 Calculus II:** Investigates differentiation, anti-differentiation, definite and indefinite integrals, parametric equations, arc length, polar coordinates, infinite series, Taylor series, techniques of integration of various functions: inverse, logarithmic, exponential, trigonometric, and hyperbolic. Prerequisites: MATH 2150 with

a grade of “C” or better. *Fall and Spring, 4 hours lecture and discussion, 4 credits.*

**MATH 3110 Communications in Mathematics:** Introduces the student to the use of verbal language to communicate their thoughts, extend their thinking, and understand mathematical concepts. Written language will also be used to explain, reason, and process thinking. Open to Math Ed majors, math minors, and those needing a free elective. *\$25 fee, 3 hours lecture and discussion, 3 credits.*

**MATH 3113 Linear Algebra:** Investigates vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants and quadratic forms. Prerequisite: MATH 2155. *Spring, 3 hour lecture and discussion, 3 credits.*

**MATH 3115 Discrete Mathematics:** Introduces some basic concepts of finite algebraic structures. Topics include logic, sets, induction, relations, functions, recursion, and an introduction to graphs. Prerequisite: MATH 3113. *Fall, 3 hours lecture and discussion, 3 credits.*

**MATH 3120 Statistics and Research:** Investigates the importance of research, variables and measurement, samples, normal distributions, and hypothesis testing. Emphasizes computers using SPSS to help organize, analyze, interpret, and present data. Prerequisite: MATH 2115 or MATH 2120 with a grade of “C” or better. *Fall, Spring and Summer, \$65 fee, 3 hours lecture, discussion, and laboratory work, 3 credits.*

**MATH 3125 Modern Geometry:** Involves activities and discussions in inductive and deductive reasoning in euclidean geometry, classical geometry with constructions, non-euclidean geometries, three-dimensional geometry, and spatial reasoning. Prerequisite: MATH 2155. *Spring, 3 hour lecture, discussion, and laboratory work, 3 credits.*

**MATH 3135 Abstract Algebra:** Introduces students to basic algebraic structures, including groups, rings, and fields. Prerequisite: MATH 3115. *Fall, 3 hour lecture and discussion, 3 credits.*

**MATH 3140 Calculus III:** Extends the basic concepts of differential and integral calculus from one dimension to two and three dimensions. Topics include: vector calculus, functions of several real variables, partial differentiation, implicit functions, multiple integrals, line and surface integrals, and applications. Prerequisite: MATH 2155 with a “C” or higher. *Fall and Spring, 4 hour lecture and discussion, 4 credits.*

**MATH 3145 Differential Equations:** Investigates first- and second-order equations; special functions; Laplace transform solutions; higher order equations; Fourier series; partial differential equations. Prerequisite: MATH 3130 and MATH 3140 with a “C” or higher. *Fall and Spring, 3 hour lecture and discussion, 3 credits.*

**MATH 3150 Number Theory:** Provides an introduction to number theory. Reading and writing proofs will be emphasized, thus enriching the student’s analytical and problem solving skills. Prerequisite: MATH 3115. *Fall and Spring, 3 hour lecture and discussion, 3 credits.*

**MATH 3155 Probability:** Topics include sample spaces and events, axiomatic probability, conditional probability, expectation and variance, distributions of discrete and continuous random variables, joint distributions and central limit theorem. Prerequisite: MATH 2150 and 2155.

**MATH 3160 Statistics for Science:** Cover various statistical concepts; sampling theory, estimation, hypothesis testing and theory of statistical inference.

## Music

**MUSC 1110 Introduction to Music:** Develops listening techniques based upon an understand-

ing of the functional role of the elements in the organization of music. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**MUSC 3110 History of Jazz:** Introduces a study of the history of jazz from its roots to its first flowering in New Orleans, Chicago and then into the Swing Era, bebop and the many modern jazz styles, include cultural influences from Creole ethnicity in New Orleans, Caribbean, Latin America and Europe. The role of women in the development of jazz will also be addressed. Attention will be given to the musical nature of jazz performance to demonstrate how to listen to jazz. *Fall and Spring, \$50 fee, 3 hours lecture and discussion, 3 credits.*

## Philosophy

**PHIL 1110 Introduction to Philosophy I:** Introduces students to the foundations of philosophy, with an analysis of the Pre-Socratics, Sophists, Socrates, and Plato. Students will also learn the basic tenets of metaphysics, ethics, and epistemology. *Fall, 3 hours lecture and discussion, 3 credits.*

**PHIL 1115 Introduction to Philosophy II:** Surveys the early Modern period through an analysis of the ideas of five major and profoundly influential figures of the time: Bacon, Descartes, Machiavelli, Hobbes, and Locke. The course also involves students in the study of epistemology, metaphysics, ethics, and political philosophy. *Spring, 3 hours lecture and discussion, 3 credits.*

## Physical Education

**PHED 1110 Wellness and Fitness:** Intended for students of all ages and abilities. Investigates concepts and current theories of wellness and fitness. Evaluates the student’s current level of fitness, then assists in designing a personal fitness prescription to improve his/her cardiovascular and/or muscular fitness level. *Fall, Spring*

and Summer, \$25 fee, 2 hours lecture, discussion, and activity, 2 credits.

**PHED 1125 Standard First Aid and Personal Safety:** Prepares students to meet most real-life situations when emergency first-aid care is required and medical assistance is not immediately available. Provides knowledge and skills pertaining to personal safety and accident prevention. Successful completion results in standard Red Cross certification. *Spring, \$25 fee, 2 hours lecture, practice, 2 credits.*

## Physical Science

**PHSC 1115 Physical Science I:** Studies basic concepts and principles of the Earth, its make-up, and its place in the solar system. Focuses on methods of science, standard laboratory experiments to emphasize basic scientific facts and concepts, and nonstandard experiments to demonstrate the scientific method. Primarily for non-science majors. *Fall, \$100 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**PHSC 1120 Physical Science II:** Explores matter, its basic structure, properties, and relationship to various energy forms. *Spring, \$100 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**PHSC 1125 Meteorology:** Studies the composition, structure and movement of the atmosphere; primary and secondary circulation; coriolis effect; air masses, fronts and storms; weather instruments and maps; and data collection and analysis. *3 hours lecture and discussion, \$65 fee, 3 credits.*

**PHSC 1135 Geology:** Studies Earth's mineral composition, structure, and processes of formation; and the effect of these processes on materials and structures of the earth's crust. Focuses on plate tectonics, rocks and minerals, glaciation, flowing and ground water, and topographic and geologic maps. *Spring and Weekender, \$65 fee, 2 hours lecture and discussion, 2-hour laboratory, 3 credits.*

**PHSC 1140 Energy and the Environment:** Studies the flow of energy in developed and underdeveloped countries. Examines present forms of energy sources. Compares the technological feasibility, within environmental and economic constraints, of fossil fuel, nuclear, geothermal, wind, tidal and solar energy sources. Critically reviews the environmental aspects of the utilization of such energy sources. *Fall and Weekender, 3 hours lecture and discussion, 3 credits.*

**PHSC 1145 Global Change - Introduction to Earth Systems:** Provides an introduction to the Earth system, and to the forces and processes that shape the present-day global environment. Structured around three major themes: global change, time scales of change, and understanding the Earth system. Focuses on global-scale human-induced changes (global warming, loss of biodiversity, and ozone depletion) in the context of the long-term evolution and natural variability of the Earth system. *Fall, Spring and Weekender, 3 hours lecture, 3 credits.*

**PHSC 2120 Astronomy I:** Introduces astronomy with a concentration on our solar system. Emphasis will be on the motions, make-up and properties of the planets, asteroids, comets, and meteoroids. Telescopes, astronomical instruments, light and the electromagnetic spectrum will also be studied. Historical development of astronomy as a human endeavor will be addressed. *Fall, \$75 fee, 3 hour lecture, discussion, periodic evening observations, 3 credits.*

**PHSC 2125 Astronomy I with Laboratory:** Covers same material as PHSC 2120, but with a weekly laboratory session. *Fall semester, \$75 fee, 3 hour lecture and discussion, 2 hour laboratory, 4 credits.*

**PHSC 2130 Life In The Universe:** Examines the issue of life in the universe from both scientific and cultural perspectives. Investigates what the sciences of astronomy, geology/planetary science, biology, and biochemistry can tell us about whether and where life might exist

beyond Earth. Studies the ways aliens have been portrayed in movies, science fiction, and popular culture. Class participation and discussion will be an important part of this course – in addition to lectures, there will be days devoted to open discussion, where students will be encouraged (and expected) to share their responses to the material covered as well as their own ideas and perspectives. *3 credits.*

**PHSC 2135 Astronomy II:** Emphasizes the structure and evolution of stars, star systems, structure of galaxies, and theories in cosmology. Telescopes, astronomical instruments, light and the electromagnetic spectrum will also be studied. Astronomy I is not a prerequisite for Astronomy II. *Spring, \$75 fee, 3 hour lecture, discussion, periodic evening observations, 3 credits.*

**PHSC 2140 Astronomy II with Laboratory:** Covers same material as PHSC 2135, but with a weekly laboratory session. *Spring semester, \$75 fee, 3 hour lecture and discussion, 2 hour laboratory, 4 credits.*

## Physics

**PHYS 1135 Flight and Aviation:** Studies the basic principles of navigation, weather patterns, air traffic control, and aircraft operations. Prepares the student to pass the Federal Aviation Administration (FAA) written examination, a requirement for the private pilot certificate. Topics of study include Newton's laws of motion involving force, weight, acceleration, velocity, vectors and their resolution; Bernoulli's principle applied to gravity, lift, thrust, and drag of aerodynamic surfaces; modes of navigation, including visual and radio/radar; and meteorology, including pressure systems, lapse rates, frontal systems, types of precipitation, weather maps, and forecasting. *Spring, 3 hours lecture and discussion, 3 credits.*

**PHYS 2110 General Physics I:** Discusses Newton's Laws, mechanics, statics, heat and sound,

properties of matter, kinematics, dynamics, energy, momentum, rotation, vibration, fluids, temperature and expansion, calorimetry, heat transfer, kinetic theory of gasses, thermodynamics, wave motion, and sound. Prerequisite: MATH 1155 with a grade of "C" or better or consent of the instructor. *Fall, \$100 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**PHYS 2125 General Physics II:** Discusses and experiments with electricity and light. Discusses modern physics, electrostatics, electric fields, direct current circuits, electromagnetism, electrochemistry, applied electricity, alternating current theory, nature and propagation of light, geometric and physical optics, applied optics, atomic structure, and nuclear energy. Prerequisite: PHYS 2110 with a grade of "C" or better or consent of the instructor. *Spring, \$100 fee, 3 hours lecture and discussion, 3-hour laboratory, 4 credits.*

**PHYS 3110 Astrophysics I:** Introductory examination of topics in astronomy in the context of math and physics. Algebra, geometry, and trigonometry-based studies of topics including Kepler's and Newton's Laws, planetary orbits, the structure and evolution of the Sun and stars, motions and structure of the Milky Way and other galaxies, and cosmology and the expanding universe.

## Political Science

**POSC 1110 American National Government:** Studies the structure and operation of the American federal government. Special attention is given to an examination of the executive, legislative, and judicial branches as well as constitutional rights, elections, voting behavior and the duties of citizenship in a constitutional democracy. *Fall, 3 hours lecture and discussion, 3 credits.*

**POSC 2110 State and Local Government:** Studies the general principles and political processes of the states and their subdivisions. Emphasis will be placed on intergovernmental

relations, state and local politics, and elections; and the executive, legislative, and judicial functions of states and municipalities. HIST 1135 or POSC 1110 is recommended prior to this course. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**POSC 2130 International Relations:** Examines international political systems and politics among the world's nation-states with special attention given to national interests, post WWII history, and contemporary international issues. HIST 1110 or POSC 1110 is recommended prior to this course. *Fall/Spring, not offered every year, 3 hours lecture and discussion, 3 credits.*

**POSC 3110 Constitutional/Criminal Law:** Reviews the history and philosophy of criminal law and examines the United States Constitution, especially the Bill of Rights. Constitutional issues such as the basis for arrests, search, seizure, and disposition are explored to illustrate the court's interpretive process. Reviews law, legal institutions, criminal court procedures, and offenses against person and property. POSC 1110 or POSC 2110 is recommended prior to taking this course. This is a writing intensive course. *Fall, 3 hours lecture and discussion, 3 credits.*

**POSC 3115/HIST 3110 Civil Rights in America:** Examines the history and politics of the black civil rights movement from Reconstruction to the present. The contemporary civil rights issues of gender, sexual orientation, and affirmative action will also be considered. HIST 1135, POSC 1110, or POSC 2110 is recommended prior to taking this course. This is a writing intensive course. *Spring, 3 hours lecture and discussion, 3 credits.*

**POSC 3120 Comparative Government:** Introduces comparative political analysis with applications to political systems, processes, and issues in selected nation states, emphasizing those of the major powers of Europe and Asia. HIST 1110 or POSC 1110 is recommended prior to this

course. This is a writing intensive course. *Spring (alternate years), 3 hours lecture and discussion, 3 credits.*

**POSC 3125/HIST 3110 U.S. History Since 1945:** Provides an in-depth examination and critical analysis of the political, cultural, social, and economic trends that shaped the contemporary American perspective. HIST 1130 or 1135 recommended. *3 hours lecture and discussion, 3 credits.*

**POSC 3130 Public Policy (formerly POSC 2125 or 2135):** Studies general public policy concepts with emphasis on the policy process, the constitutional roles of the official policy-makers, nongovernmental policy-makers, and contemporary criminal justice policies. HIST 1135, POSC 1110, or POSC 2110 is recommended prior to this course. This is a service learning course. *Spring, 3 hours lecture and discussion, 3 credits.*

## Psychology

**PSYC 1110 General Psychology:** Introduces and examines the major topics, methods of study, and theoretical perspectives of behavior, cognition, personality, and human adjustment. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**PSYC 2110 Developmental Psychology:** Surveys human development covering the life-span from conception until death, including biopsychosocial and cognitive changes that occur. Examines the major theoretical viewpoints of development. Prerequisite: PSYC 1110. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**PSYC 2190: Child Development I (Ages 0-6):** Examines the developmental characteristics, processes, and theories pertaining to children from conception up to age six with an emphasis on understanding the influences on development, the interactions which affect development and the problems associated with development. Clearances and field observations are required

for this course. *3 hours lecture and discussion, 3 credits.*

**PSYC 2195: Child Development II (Ages 5-13):** Examines the developmental characteristics, processes, and theories pertaining to children from age five through thirteen with an emphasis on understanding the influences on development, the interactions which affect development and the problems associated with development. Clearances and field observations are required for this course. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**PSYC 2205 Psychology of Adolescence:** Focuses on the social, cognitive, and biological development of adolescents from pre-adolescence to late adolescence and young adulthood. The influence of heredity, family, culture, school, and peers will be examined. Common adolescence problems, adolescent biological/psychological/social adjustments and learning differences will be explored. This course also offers an introduction to the major topics, methods of study and theoretical perspectives of contemporary adolescent psychology. Prerequisite: PSYC 1110. Clearances and field observations are required for this course. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**PSYC 2210 Adulthood and Aging:** Focuses on the social, cognitive, and biological development of adults from emerging adulthood through late adulthood concluding with the topics of dying and death. This course will examine the influence of heredity, family, culture, and peers as contexts within which adults develop. Current theories of aging are studied, as well as central issues faced by adults in their daily lives. Prerequisite: PSYC 1110. *Fall and Spring, 3 hours of lecture and discussion, 3 credits.*

**PSYC 2215 Drugs and Behavior:** Addresses issues of drug use including why people use, impact of use on the individual and society, prevention, and treatment. Examines the basic

structure and function of the nervous system; the principles of action and categorical analysis of psychoactive drugs; and, the physiological, psychological, and societal effects of both legal and illegal drugs. Prerequisite: PSYC 1110 and sophomore standing. *Spring, 3 hours lecture and discussion, 3 credits*

**PSYC 2220 Physiological Psychology:** Reviews the interrelationships between the physiological and the psychological aspects of brain and behavior. Addresses five major areas: foundations of physiological psychology; sensory and motor systems; sleep, reproduction, emotions, and ingestion; learning; and, mental and behavioral disorders. Prerequisite: PSYC 1110 and BIOL 1003 or higher. *Fall, 3 hours lecture and discussion, 3 credits.*

**PSYC 2225 Orientation to Psychology Major:** This required course is for psychology majors or those who are considering changing their majors to psychology. Focuses on gaining insight into oneself; clarifying career goals; identifying steps necessary to achieve goals; preparing a resume; and, gaining the practical skills, such as using the library, performing ethical research, and writing in American Psychological Association (APA) style, to be successful in the major. Prerequisites: PSYC 1110, 24 or more earned credits (sophomore standing). *Fall, 3 hours lecture and discussion, 3 credits.*

**PSYC 2230 Cognitive Psychology:** Examines cognitive processes associated with perception, memory, language, thinking and learning. The purpose of this course is to provide students a basic understanding of cognitive development across the lifespan. Prerequisite: PSYC 1110 and sophomore standing or permission of instructor. *Spring, 3 hours lecture and discussion, 3 credits.*

**PSYC 2235 Learning and Behavior:** Surveys the fields of conditioning and learning. Topics include habituation, sensitization, classical

conditioning, operant conditioning, and learning. Prerequisite: PSYC 1101 and sophomore standing or permission of the instructor. *3 hours lecture and discussion, 3 credits. Not offered every year.*

**PSYC 2240/MATH 2120 Statistics for the Social and Behavioral Sciences:** Introduces the analysis of data using descriptive and inferential statistics, including: central tendency, variability, and distribution shape; correlation, regression, and chi-square; and t-tests and ANOVA. Sampling error, hypothesis testing, significance levels, Type I Error, Type II Error, and power will be discussed. Prerequisites: PSYC 1110 and MATH 1125 or equivalent. *4 credit hours, 4 contact hours.*

**PSYC 3110 Theories of Personality:** Provides a review and critical evaluation of the major personality theories, from the classic to the modern, with an emphasis on the integration of theory and research. Prerequisites: PSYC 1110, junior standing or permission of instructor. *Fall, 3 hours lecture and discussion, 3 credits.*

**PSYC 3115 Social Psychology:** Introduces theories, methodology, and research of social psychology, including the areas of social perception, social cognition, attitudes, interpersonal attraction, social influence, and prosocial behavior. Prerequisite: PSYC 1110 and junior standing or permission of the instructor. *Fall and spring, 3 hours lecture and discussion, 3 credits.*

**PSYC 3125 Research Methods for the Social and Behavioral Sciences:** Introduces the student to social science research. Examines the connection between collecting and examining data as well as theory and hypothesis formation. Emphasizes quantitative and qualitative methodologies of survey research, sampling, interviewing, focus groups, and case studies. Prerequisite: PSYC 1110, MATH 2115 or MATH 2120, and junior standing. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**PSYC 3130 Psychopathology:** Surveys mental illness with an introduction to cause, diagnosis, functional behavior, and treatment. Prerequisite: PSYC 1110 and junior standing. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**PSYC 3140 Psychological Tests and Measurements:** Introduces the methodology, theory, and ethics of psychological tests and their construction and evaluation. Topics covered include principles and applications of psychological testing and issues related to the use of psychological testing. Emphasis is placed on helping students become informed consumers and critical thinkers regarding the development and use of psychological tests and measures. Prerequisites: PSYC 1110, MATH 2115 or MATH 2120. \$50 fee. *3 hour lecture and discussion, 3 credits. Not offered every year.*

**PSYC 3145 Forensic Psychology:** Focuses on an understanding of the roles of mental health professionals in the legal system. Course topics will include: an introduction to forensic psychology, the use of psychology in civil and criminal proceedings, intervening with offenders, and ethical issues in forensic psychology. Prerequisites: PSYC 1110, junior standing recommended. *Fall, 3 hours lecture and discussion, 3 credits.*

**PSYC 3150 Psychology of Trauma:** Focuses on the psychological and physiological human response to trauma, including, but not limited to childhood trauma, combat, natural/man-made disasters, and terrorism. Examines normal and abnormal psychological reactions to trauma, the recovery process and principles of mental health care for victims. Explores how individuals and communities respond to and recover from such events. Prerequisites: PSYC 1110, PSYC 3130, and junior standing. *Spring, not offered every year, 3 hours lecture and discussion, 3 credits.*

**PSYC 3155: Evolutionary Psychology:** Examines the intersection of Darwinian evolution and

psychology. Examines the basics of evolutionary theory, the adaptive problems related to survival, and the challenges of sex, mating, parenting, kinship, and group living. Prerequisites: PSYC 1110, PSYC 2220 or permission of instructor. *Fall, 3 hours lecture and discussion, 3 credits.*

**PSYC 3160: Psychology and Film:** Encourages critical analysis on the part of students to consider how popular culture and popular media depict and reflect psychological concepts particularly in the film industry. Covers a broad spectrum of psychological themes including: human development, positive psychology, social issues, morality, mental disorders/treatment, research methods and others. Other general themes such as the history of film, film music and mood, and the underlying influence of cinematic devices on individual psychology are considered.

**PSYC 3165 Play, Cognition, and Learning:** Examines the contributions of play to children's development with special emphasis on cognitive processes, thinking and learning. The purposes of this course are to provide students with a basic understanding of the role of play in development across the developmental domains and learning in all the content areas. Prerequisites: PSYC 2195 or PSYC 2110. Clearances and field observations are required for this course. *3 hours lecture and discussion, 3 credits.*

**PSYC 3170 Health Psychology:** Applies psychological principles and research to the enhancement of health and the treatment and prevention of illness. Provides an overview of the foundation areas pertaining to health psychology, discussion of leading research and theory in these areas, and an exploration of the personal and practical implications of this information. Prerequisites: PSYC 1110, junior standing or permission of instructor. *Spring, 3 hours lecture and discussion, 3 credits.*

**PSYC 3175 Clinical and Counseling Theories:** Exposes students to the history and theory

surrounding the clinical approach to treating mental health issues. Examines the approach of various theoretical orientations to the assessment, diagnosis, and treatment of mental disorders and understand the various career paths related to such practice. Prerequisites: PSYC 3130 or approval of instructor.

**PSYC 3330 Ethics and Issues in Psychology:** Presents a detailed exploration of ethical concepts as they apply to the practice of psychology across the range of professional settings, including clinical practice, research, and academic environments. Emphasis on recognizing, analyzing and resolving ethical problems through the well-reasoned application of ethical systems. Prerequisites: PSYC 1110, junior standing or permission of instructor. *Fall, 3 hours lecture and discussion, 3 credits.*

**PSYC 3515 Psychology Teaching Assistant:** Student will attend all classes and labs for the class for which they are serving as teaching assistant, complete student assignments in advance, assist students with completion of assignments based on that experience, help prepare sample materials or data for use in class exercises, and help provide early guidance and feedback on student assignment drafts. Other duties may be undertaken as mutually agreed, not to include substituting for the professor. Prerequisites: must have taken the course for which they will serve as TA and junior standing.

**PSYC 4715 Field Experience and Seminar in Psychology:** Students gain practical experience in the field related to the student's career interests. Students work for a minimum of 120 hours in a structured, supervised, off-campus setting related to their psychology major career goals. Students are expected to use this experience to explore career options, gain work experience, and develop professional contacts in preparation for post-baccalaureate employment. Prerequisites: PSYC 2225; PSYC 2205; minimum 3.0 GPA in the major; senior standing; and recom-

mentation of instructor. *\$25 fee, Spring, 3 credits.*

### **PSYC 4910 Senior Seminar in Psychology:**

This capstone seminar course synthesizes and provides a broader context for knowledge about the field of psychology by exploring major contemporary issues in psychology. Topics include such issues as history of psychology, psychology as science, biological psychology, race and gender, stress and subjective well-being, violence, poverty, new media, environment, and the practice of psychology. Prerequisites: PSYC 2225; PSYC 4710; minimum 2.0 overall GPA; and, senior standing or consent of instructor. *\$25 fee, Spring, 3 hours lecture and discussion, 3 credits.*

## **Public Health**

**PBHL 1110 Public Health:** Introduces public health concepts and practice by examining the philosophy, purpose, history, organization, functions, tools, activities and results of public health practice at the national, state, and community levels. Addresses important health issues and problems facing the public health system. Case studies and a variety of practice-related exercises serve as a basis for learner participation in real world public health problem-solving simulations. Stimulate interactions among learners and instructors around important problems and issues facing public health. *Spring, \$700 fee, 3 credits.*

**PBHL 1115 History of Public Health:** Examines the historical experience of health and illness from a population perspective. Reveals how the organization of societies facilitates or mitigates the production and transmission of disease. Asks how do populations and groups of individuals go about securing their health? *Fall, 3 credits.*

**PBHL 2110 Epidemiology:** Examines basic epidemiological principles for the investigation of diseases (both chronic and infectious), their outcomes and effects on public health policy assessment. In studying these principles and ap-

plications, students will be provided a structure for thinking about underlying causes and potential interventions for addressing the health and well being of individuals as well as populations. Prerequisites: MATH 2115 or MATH 2120 or MATH 3120 or MATH 3160 or PSYC 3125. *Fall, 3 credits.*

**PBHL 2115 Public Health Biology:** Provides an introduction to underlying biological concepts of normal physiology, disease and pathophysiology in the context of public health and emphasizes the clinical applications required of public health professionals with the different layers of complexity in shaping human behavior surrounding both communicable and non-communicable disease. Addresses some necessary professional skills for practitioners of public health that will be needed for selected important health issues and problems facing the public health system. *Spring, 3 credits.*

**PBHL 2120 Community Health:** Focuses on the concept of community health by exploring the components of a healthy community and the interactions between the constituents within a community. In addition, community-based participatory research will be defined and used. Prerequisite: PBHL 1110. *Spring, 3 credits.*

**PBHL 3010 Special Topics: Maternal and Child Health:** Provides an introduction to the health needs of women of childbearing age, pregnant women, infants and children from birth through 21 years of age. The delivery of services designed to meet these needs in both developed and developing countries is examined including resources, program policies and nutritional problems. Students learn the biological, social, political and economic context within which maternal and infant health problems arise. *Spring, 3 credits*

**PBHL 3110 Global Health:** Explores the main concepts of global health and the critical associations between public health and key factors

in disease burdens. Emphasizes critical thinking about disease, the determinants of health, how health status is measured, along with the influence of various factors including social, economic, and political issues on the health of communities and individuals. Discusses specific disease states and key concerns of nutrition, infectious disease, reproductive health, child survival, communicable disease as well as chronic disease will be introduced to students. This course is global in scope but a focus on the developing world is included. Students will be able to understand critical health issues from a multi-dimensional perspective to support the growth and development of a fully functioning global citizen who is able to incorporate global understanding in all settings. Prerequisites: one Science, one Arts and Humanities and one Social and Behavioral class. *Spring, 3 credits.*

**PBHL 3115 Environmental Health:** Examines health issues, scientific understanding of causes, and possible future approaches to control of the major environmental health problems in industrialized and developing countries. Topics include how the body reacts to environmental pollutants; physical, chemical, and biological agents of environmental contamination; vectors for dissemination (air, water, soil); solid and hazardous waste; susceptible populations; biomarkers and risk analysis; the scientific basis for policy decisions; and emerging global environmental health problems. Prerequisite: PBHL 1110. *Fall, 3 credits.*

**PBHL 3120 Public Health Education:** Provides an introduction to current methods used to understanding and influencing psychosocial, cultural and situational factors in the voluntary behavior change process using theories of health behavior and health education. *Fall, 3 credits.*

## Religion

**RELG 2110 Survey of World Religions:** Studies major world religions, including Islam, Buddhism, Hinduism, Taoism, and Confucianism

from theological, literary, and historical perspectives. Students will expand their awareness and understanding of religions around the world by studying, researching, and writing about major texts, practices, and symbol systems. *Fall, 3 hours lecture and discussion, 3 credits.*

## Science

**SCI 0050:** Intended for students who are interested in the Biological sciences but do not have strong background in chemistry and biology. Prepares the students for a successful career in the sciences. Topics covered will include: study skills for the sciences, graphing calculator use, scientific vocabulary building, scientific notation, dimensional analysis, chemical equations writing and nomenclature, atomic theory, oxidation - reduction, reaction, moles, stoichiometry, and aerobic respiration/photosynthesis. (Strongly recommended for students who are pursuing a degree in the science and who are not prepared for the rigors of the major or have tested into ENGL 050 (Reading Skills). This course may not be transferable. This is a developmental course. Credits earned do not count toward graduation. *Fall and Summer, 2 credits.*

## Social Sciences

**SOSC 4710 Internship in the Social Sciences:** Assimilates, integrates, and complements previous social science coursework and allows the student to gain practical experience necessary for entrance into the world of employment or graduate school. *3 credits.*

**SOSC 4910 Research Implementation and Analysis:** Students will implement a research proposal developed during PSYC 3125: Research Methods for the Social and Behavioral Sciences. Explores analysis issues and apply statistical material to their individual data sets. Final project will consist of a written thesis and poster presentation of findings. Prerequisite: PSYC 3125. *3 credits, \$30 fee.*

## Sociology

**SOCI 1110 Introduction to Sociology:** Examines social organization, social movements, change, and the socialization process. Explores cultural unity and diversity in a pluralistic society. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**SOCI 2120 The Sociology of Social Problems:** Examines social disorganization, value conflict, and personal deviation in selected problems: race, war, vested interests, crime, family, poverty, civil liberties, cities, population, and ecology. A research paper on a problem topic approved by the instructor is central to the course. Prerequisite: SOCI 1110 or consent of the instructor. *Spring (not offered every year), 3 hours lecture and discussion, 3 credits.*

**SOCI 2125 The Family:** Examines family as the basic social institution in society. Explores diverse family patterns, relationships, communication, conflict resolution, and problems in contemporary society. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**SOCI 2130 Sociology of Sport and Recreation:** Examines sport from a social and cultural perspective. Emphasis is placed on examining how the institution of sport is a microcosm of American society, reflecting society's major cultural beliefs, and how the organization of sport reflects that of society. Prerequisite: SOCI 1110. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**SOCI 3110 Sociology of Diversity:** Examines minority groups and diverse heritages in contemporary American society from a sociological perspective. Explores current trends and issues in contemporary society such as immigration, assimilation, and acculturation. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**SOCI 3120 Social Deviance:** Focuses on major theories of deviance and their application to forms of deviance; integration of these perspectives; and construction of more general models of deviance. Evaluates issues that touch on our most important values and beliefs, to "see" the world in different ways. Prerequisite: SOCI 1110. *Spring (not offered every year), 3 hours lecture and discussion, 3 credits.*

**SOCI 4125 Social Deviance:** Explores the topic of social justice as it relates to the topics of poverty, equality, opportunity, race, class, and gender. Emphasizes a contemporary analyses of inequality, privilege, and oppression of marginalized and non-marginalized populations. Challenges views and assumptions regarding inequality in the United States.

## Spanish

**SPAN 1110 Elementary Spanish I:** Provides opportunities for students to develop listening, speaking, reading, and writing skills. Through listening and repetition, the student will be able to identify sounds and imitate the pronunciations of native Spanish speakers, and will engage in basic conversations using a variety of day-to-day situations. Also included is an introduction to Hispanic culture and customs. *Fall, 4 hours lecture and discussion, 3 credits.*

**SPAN 1115 Elementary Spanish II:** Continues to develop the concepts from SPAN 1110. Students utilize vocabulary and grammar to communicate effectively in basic survival situations, increase their comprehension of readings and their ability to answer questions, and enhance writing skills. Prerequisite: SPAN 1110 or successful completion of three years of high school Spanish, or consent of the instructor. *Spring, 4 hours lecture and discussion, 3 credits.*

**SPAN 2110 Intermediate Spanish I:** Assumes that the student has a sound background

in elementary Spanish. The course includes an active review of important language facts and experiences, will continue to enhance their communicative competency and will learn new concepts to reinforce communication skills which are useful in sophisticated situations. Prerequisite: SPAN 1115 or successful completion of four years of high school Spanish, or consent of the instructor. *Fall, 3 hours lecture and discussion, 3 credits.*

**SPAN 2115 Intermediate Spanish II:** Offers a comprehensive review of grammar structure while developing reading, writing, listening, and speaking skills. Using Spanish appropriately by emphasizing oral communication skills and language skills. Also included is the study of geography, music, art, literature, history, and everyday life of the Hispanic cultures. Prerequisite: SPAN 2110 or successful completion of four years of high school Spanish or consent of the instructor. *Spring, 3 hours lecture and discussion, 3 credits.*

## Special Education

**SPEC 2110 Characteristics and Needs of Exceptional Learners (formerly PSYC 2200):** Defines and analyzes exceptionalities in children. Students will examine the legal issues involved in identifying and educating exceptional students. Course material will also include analysis of the interrelationships between exceptional children and family and school systems. Prerequisites: PSYC 2190, 2195 or 2205. *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**SPEC 2115 Special Education Processes and Procedures:** Examines the federal and state mandated processes and procedures associated with special education. Content of this course includes the historical perspectives of special education, the characteristics of individualized instruction and special education procedures pertinent to regular and special education teachers. Prerequisite: SPEC 2110. *Spring, 3 hours*

*lecture and discussion, 3 credits. Fieldwork required.*

**SPEC 2120 Early Intervention and Transitions (formerly ECE 2175):** Analyzes the early intervention services available for young children. Focus will be on the child with special needs, the role of the caregiver, the parents and the early interventionist in meeting the needs of the young child in the least restrictive/inclusionary environment. Prerequisite: SPEC 2110. *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**SPEC 3110 Classroom Management Positive Behavior Intervention and Support (formerly EDUC 3135):** Studies the rationale, theories, and techniques for creating positive, learning environments. Specific individual and group behavior challenges are addressed. Students develop a repertoire of management skills that support best practices and are based on current research regarding classroom management. Prerequisite: SPEC 2110 and acceptance into the education program. *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**SPEC 3115 Differentiated Instruction for Diverse Learners (formerly EDUC 3170):** Enables the prospective teacher to learn how to coordinate the classroom learning environment to effectively address the diverse needs of students in classroom settings. Considers adaptations and accommodations in teaching methods necessary to meet the needs of all learners. Various formative and summative assessment techniques will be discussed. Prerequisite: SPEC 2110, and acceptance into the education program. *Fall and Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required).*

**SPEC 3120 Low Incidence Disabilities: Assessment and Instruction:** Focuses on a detailed analysis of the environments and organizations involved in the education of children with severe disabilities. Emphasis will include placement and methodologies for working with

children with severe cognitive limitations, low vision and blindness, hearing impairments and deafness, deaf-blindness, autism, physical or health disabilities and traumatic brain injury. Prerequisites: SPEC 2115 and acceptance into the education program. *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required/*

**SPEC 3125 Evidenced Based Effective Instruction Pervasive Developmental Disorders:** Focuses on the characteristics, diagnosis, and effective evidenced based practices when educating children with Autistic Spectrum Disorder and Pervasive Developmental Disorder. Explores various service delivery models. Addresses the relationship between the educational team, families and agencies. Prerequisites: SPEC 2110 and acceptance into the education program. *Spring, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

**SPEC 3130 Learning Disabilities: Identification and Instruction in Content Areas:** Examines the physical, cognitive, and social characteristics of individuals with specific learning disabilities. Presents current theories and educational strategies. Emphasizes the link between assessment and instruction is emphasized. Prerequisites: SPEC 2115 and acceptance into the education program. *3 hours lecture and discussion, 3 credits. Fieldwork required.*

**SPEC 3135 Technology: Assistive and Universal Design for Learning to Assist in the Content Area Instruction:** Provides students with opportunities to build on basic skills and concepts by focusing on the applications of technology in the educational classroom environment. Students demonstrate the ability to use and the ability to teach others to use word processing software, spreadsheet software, database software, drawing and presentation software, internet applications, computers and other classroom hardware. Addresses the use of assistive technology and the use of Universal Design for

Learning. Fieldwork required and clearances necessary. Prerequisite: SPEC 2110 and acceptance into the education program. *3 hours lecture and discussion, 3 credits. Fieldwork required.*

**SPEC 3140 Transition Planning:** Focuses on the process of preparing exceptional students to transfer successfully into either the work force or into post high school educational or training settings. This course will target both formal and informal assessments, which can be used to facilitate the transitioning process. The involvement of student, families, and educators, as well as an assessment of available community resources, will be explored. The I.E.P. process as it relates to transitioning will also be a major course focus. Pennsylvania State Transition Practices will be addressed. *3 credits lecture and discussion.*

**SPEC 4110 Family Partnerships; Advocacy, Collaboration and Transitions:** The capstone course in the Special Education sequence, this course focuses on the special educator as the problem solver. Examines the collaborative process between key personnel and agencies and this affects successful implementation of the student's IEP. The central role of the family in successful collaboration will be emphasized. Prerequisite: SPEC 2115 and acceptance into the education program. *Fall, 3 hours lecture and discussion, 3 credits. Fieldwork required.*

## **Sport and Recreation Management**

**SRM 1010 Downhill Skiing:** Introduces students to skiing as a lifetime activity. Students increase their knowledge in techniques, equipment, terminology, and mountain awareness to enable them to participate in this sport in a safe and enjoyable manner. Although this course is designed for beginner and intermediate skiers, advanced skiers will be challenged with refining their skills, as well as handling more difficult slopes and snow

conditions in a safe manner. This course is conducted off-campus; transportation is available. *Spring, \$150 course fee; lecture, discussion and activity, 1 credit.*

**SRM 1011 Foundations of Karate:** Introduces students to karate as a lifetime activity. Students increase their knowledge of the techniques, terminology and skills to enable them to participate in this activity in a safe and enjoyable manner. This course is designed for the beginner, thus no prior knowledge of karate or fitness level is required. *\$20 course fee; lecture, discussion and activity, 1 credit.*

**SRM 1012 Yoga:** Introduces students to yoga as a lifetime activity. Students will increase their knowledge in the philosophy and history of yoga, as well as experience the breathing techniques and basic postures that serve as the foundation to the practice of yoga. This course is designed for the beginner, thus no prior knowledge or fitness level is required. *Lecture, discussion and activity, 1 credit.*

**SRM 1110 Introduction to Sport and Recreation Management:** Explores the fundamentals of business and management in the sport and recreation fields. Examines many aspects of sport and recreation management from management strategies, marketing, program planning, risk management, advertising, budgeting, and financial planning. Discusses a wide variety of sport and recreation-related careers. *Fall/Spring, 3 hours lecture and discussion, 3 credits.*

**SRM 2110 Program Development and Planning:** Provides the student with a sequential model for sports and recreational program planning, developing philosophies and goals, designing program needs, group leadership, problem solving, risk management and safety, and program facilitation, implementation, and evaluation. *Fall/Spring, 3 hours lecture and discussion, 3 credits.*

**SRM 2115 Facilities Management:** Students develop the strategies and skills necessary for effective athletic and recreational facilities management. Discusses fields, flooring, lighting, equipment, traffic flows, safety concerns, legal issues, basic planning and design, and scheduling. *Fall/Spring, 3 hours lecture and discussion, 3 credits.*

**SRM 2120 Social Issues in Sport (formerly SOCI 2130):** Examines sport from a social and cultural perspective. Emphasis is placed on examining how the institution of sport is a microcosm of American society, reflecting society's major cultural beliefs, and how the organization of sport reflects that of society. *Fall/Spring.*

**SRM 2125 Economics in Sport and Recreation:** Students develop an understanding of many fields of economics that relate to sports including labor economics, industrial organization and anti-trust, game theory, public finance and urban economics. Focuses on real life events and applications of economics in the sporting world. *Fall/Spring.*

**SRM 2715 Internship:** A 200-hour internship/practicum at an approved site must be completed to fulfill graduation requirements in the SRM curriculum. Approval for the internship must be granted by the curriculum coordinator prior to beginning the experience. Prerequisites: SRM 1110, SRM 2110, and SRM 2710. *Fall, Spring, and Summer, 200 hours practicum, 0-3 credits.*

**SRM 3115 Legal Issues in Sport:** Provides students with background in the legal system, constitutional law, contract law, tort law, risk management, product liability, and administrative and statutory law as it pertains to sport, recreation, and fitness. Explores pertinent topics such as coed competitions, anti-trust laws, equal opportunities, and Title IX. *Fall/Spring, 3 hours lecture and discussion, 3 credits.*

**SRM 3120 Sport Marketing:** Provides students

with an in-depth view of marketing practices, procedures and operations as they pertain to professional, college, and recreational sport organizations. The course familiarizes students with the challenges of fundraising, sponsorships, merchandising, sport consumer demographics, and behavior. The course explores the role of the media, promotions of special events, and venue and event management. *Fall/Spring, 3 hours lecture and discussion, 3 credits.*

**SRM 3125 Principles of Coaching:** Explores non-sport specific coaching principles from youth sports through the collegiate level. Includes the growth and development of players, the psychology of coaching, risk management techniques, program administration, and social and ethical issues. Students will explore coaching as a career (both full-time and part-time). Examines practice and game philosophies. *Fall and Spring, 3 hours lecture and discussion, 3 credits.*

**SRM 3130 Economics of Sport Tourism:** Examines the basic principles of tourism, the growth of the industry, and the importance of tourism to the national economy. Explores the impact of television and the Internet on the tourism industry and takes an in-depth look at the consumers who travel for sport and recreational opportunities. *3 hours lecture and discussion, 3 credits.*

**SRM 3135 Facilitation of Leadership Activities:** Examines the theoretical and practical foundations of facilitating recreational activities designed to develop leadership skills. Emphasizes experiential learning concepts, activity components, and categories of activities including self-awareness, initiative games, simulations, adventure activities, and service. *Fall, \$100 fee, 3 hours lecture, discussion and practicum, 3 credits.*

**SRM 3140 Commercial Recreation:** Explores different types of commercial recreation enterprises such as sports clubs, fitness centers,

country clubs and health clubs. Examines specific applications of business, management, marketing, and finance as they pertain to this segment of the industry. *3 hours lecture and discussion, 3 credits.*

**SRM 3145 Applied Learning Theories for Movement and Play:** Applies current learning theories and practices appropriate for teaching games and other activities that involve physical movement to elementary and middle school students. Students develop and use lesson plans for the teaching of health and physical education in elementary school settings. *Spring, 3 hours lecture and practicum, 3 credits.*

**SRM 3150 Outdoor Recreation:** Surveys the history, current status, trends, and management of outdoor recreation opportunities and resources, as well as the role in society they play. It examines the relationship of outdoor recreation and natural resources, especially the environmental impact of recreational pursuits on the resource base. *Spring.*

**SRM 3300 Ethics in Sport and Recreation:** Focuses on seven areas of ethical conflict commonly present in real-world experiences of SRM professionals. These areas include: the roots of sport ethics; fair play; genetic and pharmaceutical enhancement; gender equity and dis/ability; self-esteem and physical education; commercialism and exploitation; and marketing danger. Each topic will connect ethical theory to real-world experiences which are applicable to real-world decision making protocols as a result of reading, analyzing, discussing and debating the chapter content in the required text. *Fall/Spring*

**SRM 4110 Governance of Sports and Athletics:** Studies the bodies that govern both professional and amateur sports. Examines the organizational structure, authority and influence of various governing bodies on sport and

recreational activities; including, but not limited to, High School Athletic Associations (PIAA), the NCAA, the NBA, Professional Baseball, the NFL, the NHL, the US and International Olympic Committees and FIFA World Cup Soccer. *Spring, 3 hours lecture and discussion, 3 credits.*

**SRM 4120 Resort Recreation:** Explores the relationship of travel and tourism to sport and recreation, and the historical development of the resort recreation concept. Examines many aspects of resort property operations, the ecological and technological changes occurring in resort management, and the impact of time shares on the industry. Thoroughly discusses concepts of leisure activities for a variety of ages. *Fall, \$150 fee, 3 hours lecture and discussion, 3 credits.*

**SRM 4130 Municipal and Non-Profit Leisure Services:** Investigates and analyzes the organizational structure of community recreation settings including city, town, and county parks and recreation departments, as well as youth service organizations. Explores current issues and trends as they pertain to this segment of the industry. *Spring, 3 hours lecture and discussion, 3 credits.*

**SRM 4135 Sport Business Practices:** Bridges the gap between the classroom and the workplace for new sport and recreation managers. It will include skills for upper management in the field including strategic planning, finance, human resources, decision making and techniques for working with boards and trustees. Students will work with “real world” case studies. *Fall/Spring.*

**SRM 4710 Senior Internship Preparation:** Prepares students for their senior internship and assists students in finding and selecting an appropriate placement. *Spring, 1 hour lecture and discussion, 1 credit.*

**SRM 4720 Senior Internship I:** A 200 hour internship/practicum at an approved site must be completed to fulfill graduation require-

ments in the SRM curriculum. Approval for the internship must be granted by the curriculum coordinator prior to beginning the experience. Prerequisite: 90 credits including SRM 2710 or SRM 4710. *Fall, Spring and Summer, 200 hours practicum, 4 credits.*

**SRM 4725 Senior Internship II:** A 200 hour internship/practicum at an approved site must be completed to fulfill graduation requirements in the SRM curriculum. Approval for the internship must be granted by the curriculum coordinator prior to beginning the experience. Prerequisite: 90 credits including SRM 2710 or SRM 4710. *Fall, Spring and Summer, 200 hours practicum, 4 credits.*

**SRM 4910 Senior Seminar:** Explores current trends in the sport and recreation industry. Allows students to integrate material from all major courses. Memberships in professional organizations, participation in professional seminars and conferences, volunteer work, development of professional portfolio and a culminating project are included in the course requirements. Prerequisite: 90 credits including 18 credits in SRM or consent of the instructor. *Fall, Spring and Summer, 4 hours lecture and discussion, 4 credits. May be handled as an online course based upon the location of the senior internship.*

## Theatre

**THEA 1120 Introduction to Theatre:** Introduces elements of theatre including audience, playwriting, directing, designing, acting, crewing, and critiquing productions. Students will examine current production practices, complete a collaborative theatre project, and participate in the College productions. Students will work collaboratively to learn theatrical concepts and elements. *Fall, 3 hours lecture, discussion, and 2-hours*

*laboratory, 3 credits.*

**THEA 1125 Acting I: The Basics of Performance:** Introduces basic acting skills and techniques, including physical relaxation and warm-up, vocal production and diction, stage geography and movement, audition and rehearsal expectations, and theatre culture. Students are required to participate in Actor's Showcase. Demonstrates memory, emotion, listening skills, responding skills, and basic character analysis skills in pantomime, improvisation, and monologue work. *Fall, 3 hours lecture and workshop, 3 credits.*

**THEA 2120 Survey of Technical Theatre:** Introduces technical elements of theatre production, including set design and construction techniques, stage lighting, sound, and costume and make-up design through research projects and hands-on laboratory experiences. Explores technical production and basic stagecraft. Prerequisite: THEA 1120. *Spring, even-numbered years, 3 hours lecture, discussion, and workshop, 3 credits.*

**THEA 2125 Acting II: Techniques and Styles:** Concentrates on internal, external, and other acting techniques, script and character analyses, and introduces specific acting techniques for one or more historical periods, for example, Greek, Renaissance, and/or Restoration, in addition to Realism. Monologue and scene work, research projects, and mandatory participation in Actor's Showcase are required. Enhances a student's ability to analyze and perform varied roles and styles. Prerequisite: THEA 1125 or consent of instructor. *Spring, 3 hours lecture, discussion, and workshop, 3 credits.*

**THEA 3110 Directing for the Stage:** Introduces students to the concepts, theories, and practices of theatrical direction and examines the director's interaction with the script, the actors, and the designers. Students will learn how to select and analyze plays, conduct auditions

and rehearsals, and collaborate with design and technical staff. During lab sessions, students will put theory into practice as they select, cast, and direct short plays, culminating in a public presentation. *Spring, 2 hours lecture, 2 hours laboratory, 3 credits.*

# ***Trustees, Faculty, and Administration***

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## **Trustees**

William E. Aubrey III, Clarks Summit, Pa.  
Joyce M. Avila, Tobyhanna, Pa.  
Susan S. Belin, Waverly, Pa.  
Mark C. Carpenter, Factoryville, Pa.  
Dr. Jack C. Cassell, Tequesta, Fla.  
Dr. David L. Coppola, Factoryville, Pa.  
Jon S. Craighead, Pocono Pines, Pa.  
Thomas W. Davis '52, Factoryville, Pa.  
Michelle Dempsey, Scranton, Pa.  
Nancy Dressel, Pocono Pines, Pa.  
Jack Duff '79, Horsham, Pa.  
Homa Ferdowsi, Clarks Summit, Pa.  
Alex Fried, South Abington Township, Pa.  
George W. Ginader '56, Waverly, Pa.  
Jane Julius Honchell, Clarks Summit, Pa.  
Robert L. Kagler '57, Hudson, Ohio  
Fafi Keating Karam, Waverly, Pa.  
Richard Krebs '96, Lake Ariel, Pa.  
Dr. Frances Langan, Scranton, Pa.  
Dorothy DeWitt '52 Mackie, Clarks Summit, Pa.  
Gerard O'Donnell, Shavertown, Pa.  
Jane Oppenheim, Scranton, Pa.  
Diane C. Paparo '76, New York, N.Y.  
John Pullo '69, Clarks Summit, Pa.

Joseph J. Quinn '70, CPA, Scranton, Pa.  
Thomas G. Speicher '72, Archbald, Pa.  
Suzanne Fisher Staples '65, Nicholson, Pa.  
Curtis N. Stevens '64, Nicholson, Pa.  
Robert Swartley '75, Collegeville, Pa.  
Joyce E. Tressler, Clarks Summit, Pa.  
Dr. Betty J. Turock '53, Highland Park, N.J.  
Dr. David Turock '77, Fort Lauderdale, Fla.  
Earle Wootton, Montrose, Pa,  
Stacey Wyland, Jermyn, Pa.

## **Trustees Emeriti**

Albert G. Albert\*  
Charles F. Kennedy  
William A. Lees '51  
James J. McLaughlin

\*deceased

## Faculty

### Division of Business, Management, and Technology

Karen Yarrish, SPHR, Associate Professor,  
Division Chair  
B.S. King's College; M.S., University of Scranton;  
Ph.D., The Pennsylvania State University

Kasey Chermak, Instructor  
B.S., Cedar Crest College

Stephen Cheskiewicz, Assistant Professor  
A.S., Keystone Junior College; B.A., M.S.Ed.,  
Wilkes University

Patricia Davis, Professor  
A.A., Keystone Junior College; B.S., Wilkes  
University; M.B.A., University of Scranton;  
Ph.D., Capella University

Janet DeAndrea, Professor  
A.A., Keystone Junior College; B.S., Bloomsburg  
University; M.A., Marywood University

Phileshia Dombrowski, Assistant Professor  
B.S., Lock Haven University; M.S., Slippery Rock  
University

Dana Harris, Assistant Professor  
B.S., East Stroudsburg University;  
M.B.A., The University of Scranton; Ph.D.,  
Capella University

Melodie J. Jordan, Associate Professor  
A.A.S., B.A., M.A.T., Johnson & Wales  
University

Sonji Lee, Half-Time Senior Professor  
B.A., College Misericordia; M.P.A., Marywood  
University; Ph.D., Capella University

Brenda A. Lidy, C.H.E., Associate Professor  
B.S., Marywood University; M.S., Thomas  
Edison State College

Mark Seibert, Instructor,  
A.A.S., Johnson and Wales University; C.E.C.,  
American Culinary Federation

Kevin Vinson, C.M.A., Associate Professor  
B.A., M.B.A., University of Scranton

Therese Nichols Wise, Half-Time  
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B.S., West Chester University; M.Ed., Temple  
University

### Division of Communication Arts and Humanities

Dawn E. Middleton-Paradise, Assistant  
Professor, Division Chair  
A.A., Keystone Junior College; B.S., University  
of Scranton; M.Ed., University of Alaska

Melany Fedor, Professor  
B.S., M.S., University of Scranton

Patricia A. Jennings, Associate Professor  
B.A., M.S., Marywood College

Jane J. Honchell, Associate Professor  
B.A., Moravian College; M.A., University of  
Scranton

Sherry S. Strain, Professor,  
B.A., West Texas State University; M.A.,  
University of Denver; Ph.D., Southern Illinois  
University at Carbondale

Sara White, Assistant Professor  
B.A., Marywood University; M.A., University of  
Scranton

## **Division of Education**

Frances G. Langan, Professor, Division Chair  
B.S., Wilkes University; M.S., Marywood College;  
Ed.D., Temple University

Karen Arcangelo, Assistant Professor  
B.S., The Pennsylvania State University; M.S.,  
Syracuse University; Ph.D., Syracuse University

Walter B. Barbe, Sergius Gambal Distinguished  
Professor of Language and Literacy Education  
Professor; B.S., M.A., Ph.D., Northwestern  
University

Carol P. Fontana, Professor  
A.A., Keystone Junior College; B.A., M.S.,  
Marywood College

James Gilhooley, Associate Professor  
B.S., Bloomsburg University; M.S., Marywood  
University; Ed.D., University of Pennsylvania

Joseph Hogan, Instructor/Field Placement  
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B.A., University of Scranton; M.S. Marywood  
University

Jan E. Kaskey, Professor; Emergency Response  
Coordinator  
B.S., The Pennsylvania State University; M.S.,  
State University of New York/Binghamton

Jeanie L. Prall, Instructor  
B.S., Kutztown State College; M.S., Marywood  
College

Heather Shanks-McElroy, Associate Professor  
B.A., B.Ed., Queen's University; M.S.W., Ph.D.,  
Marywood College

Judith H. Sweeney, Instructor, Director of  
Student Teaching and Field Observation  
B.A., Marywood University

## **Division of Fine Arts**

Ward Roe, Professor, Division Chair  
B.F.A., M.F.A., Marywood College

Drake Gomez, Professor  
B.F.A., University of Central Florida; M.F.A.,  
Cranbrook Academy of Art

Jared Jaffe, Assistant Professor  
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Judith Lynn Keats, Associate Professor  
B.A., Wilkes University; M.F.A.-I.A., Goddard  
College

Nikki Moser, Instructor  
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David W. Porter, Professor  
B.F.A., Temple University Tyler School of Art;  
M.A., Marywood College

Clifton A. Prokop, Professor,  
B.S. Mankato State College; M.F.A., University  
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## **Division of Natural Sciences and Mathematics**

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Chair  
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Mellinda C. Curis, Half-Time Senior Professor  
B.A., Saint Francis College; M.S., University of North Carolina/Charlotte

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B.S., Delaware Valley College; M.A., University of Scranton

Patricia Bederman Miller, Professor  
B.S., Bloomsburg University; M.S., Ph.D., Marywood University

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B.S., M.Ed., East Stroudsburg University

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B.S., Ph.D., The Pennsylvania State University

Patrick M. Ratchford, Assistant Professor  
B.S., Mansfield University; M. A., Ph.D., State University of New York at Binghamton

Youyu Phillips, Associate Professor  
B.S., Shanghai Teachers College of Technology, China; M.S., East China University of Science and Technology; M.S., Wilkes University; Ph.D., University of Ottawa, Canada

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## **Division of Social and Behavioral Sciences**

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B.A., Pennsylvania State University; Ph.D., J.D., Catholic University

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B.A., Syracuse University; M.A., Tufts University

Stacey Wyland, Associate Professor  
B.S., M.S., Shippensburg University

Janet C. Wrightnour, Associate Professor,  
B.A., Skidmore College; M.A., Marywood  
College

## Faculty Emeriti

Mary Ann Carroll, Professor of Hospitality  
Management  
B.S., Marywood University; M.S., University of  
Scranton

Thomas G. Cupillari '60, Professor of Physical  
Science and Mathematics  
A.A., Keystone Junior College; B.S., University  
of Scranton; M.A., Drake University

Arline G. Evans '44, Professor of Business  
A.A., Keystone Junior College; B.S., Bucknell  
University; M.S., Marywood College

Edward A. Gelb, Associate Professor of  
Psychology  
A.B., Rutgers University; M.A., Ohio State  
University

Mary K. Hart, Professor of English  
B.A., College of New Rochelle; M.A.T. in  
English, Radcliffe College

Elizabeth Jackson, Assistant Professor  
B.S., M.B.A., University of Scranton

David Jobson, Associate Professor  
B.S., Drexel University; M.S., Bucknell University

Stephen T. Kostage, Professor of Biology  
A.A., Keystone Junior College; B.S., The  
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University; Ph.D., State University of New York,  
Binghamton

Karl Neuroth, Professor of Fine Arts  
B.A., Kutztown State University; M.Ed., Temple  
University

Lawrence D. Newman, Professor of Speech  
B.S., St. Benedict's College; M.A., St. Louis  
University

William J. Tersteeg, Professor  
B.A., M.F.A., Southern Illinois University

C. G. Vlassis, Professor of Chemistry  
B.S., M.S., Drake University; Ed.D., University  
of the Pacific

## Administration

David L. Coppola, President  
B.S., Seton Hall University,  
S.T.B., S.T.M., St. Mary's Seminary  
and University,  
Ph.D., Fordham University

Edward G. Boehm, Jr.,  
President Emeritus  
B.S.Ed., Frostburg State College,  
M.Ed., Ed.D., The American University

Thea Harrington, Vice President and Dean of  
Academic Affairs  
B.A., Hampshire College,  
M.A., Ph.D., State University of New York  
at Buffalo

Sarah Keating, Vice President for Enrollment  
B.A., Colby College,  
M.A., University of Nebraska - Lincoln

Robert Perkins, Vice President of Student  
Affairs and Dean of Students  
B.A., Nasson College,  
M.S.Ed., University of Southern Maine,  
Ph.D., University of Michigan

Charlotte Ravaioli, Acting Executive Director  
of Institutional Advancement and Professor of  
Communications  
B.A., Marywood University,  
M.A., University of Scranton

Kevin Wilson, Vice President of Finance &  
Administration  
B.A., College of the Holy Cross

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# Campus Directory

## **\*General Information**

(570) 945-8000

## **Toll-Free Numbers**

1-877-4-COLLEGE

1-800-824-2764

## **Departments**

### **Academic Affairs**

(570) 945-8316

### **Act 101**

(570) 945-8442

### **Admissions**

1 (877) 4-COLLEGE

(570) 945-8111

### **Alumni Relations**

(570) 945-8162

### **Business and Financial Services**

(570) 945-8371

### **Campus Safety Department**

(570) 945-8077 (office)

Emergencies: (570) 945-8989

or (570) 945-2777

### **Campus Shoppe**

(570) 945-8009

### **Center for Community Outreach**

(570) 945-8312

### **Career Development Center**

(570) 945-8312

### **Center for Global Learning**

(570) 945-8252

### **Chef's Table Restaurant**

(570) 945-8441

### **Children's Center**

(570) 945-8260

### **Commuter Life**

(570) 945-8442

### **College Communications**

(570) 945-8170

### **Counseling**

(570) 945-8303

### **Dining Services**

(570) 945-5300

### **Diversity Services**

(570) 945-8258

### **Dean of Academic Affairs**

(570) 945-8516

### **Dean of Student Affairs**

(570) 945-8276

### **Financial Assistance and Planning**

(570) 945-8132

(570) 945-8134

1-800-824-2764, option #2

### **Health Services**

(570) 945-8022

### **Honors Program**

(570) 945-8453

### **Human Resources**

(570) 945-8373

### **Information Technology**

(570) 945-8778

### **Intercollegiate Athletics**

(570) 945-8232

### **Institutional Advancement**

(570) 945-8156

### **Institutional Research**

(570) 945-8202

### **Institutional Review Board**

(570) 945-8475

### **International Student Services**

(570) 945-8252

### **Media Services**

(570) 945-8205

### **Miller Library**

(570) 945-8332

### **Online Learning**

(570) 945-8422

### **Post Office**

(570) 945-8383

### **President's Office**

(570) 945-8500

### **Printshop**

(570) 945-8384

### **Registrar's Office**

(570) 945-8224

### **Residence Life**

(570) 945-8271

### **Student Activities**

(570) 945-8252

### **Student Affairs**

(570) 945-8252

### **Student Business Services**

(570) 945-8374

### **Student Success Center**

(570) 945-8303

### **Study Abroad**

(570) 945-8252

### **Towanda Center**

(570) 945-8877

### **Tutoring Office**

(570) 945-8491

### **WKCV-LP 103.5 FM**

(570) 945-8453

### **Weekender La Plume**

(570) 945-8380

## **Academic Divisions**

### **Division of Business, Management and Technology**

(570) 945-8433

### **Division of Communication Arts and Humanities**

(570) 945-8452

### **Division of Education**

(570) 945-8483

### **Division of Fine Arts**

(570) 945-8461

### **Division of Natural Sciences and Mathematics**

(570) 945-8412

### **Division of Social and Behavioral Sciences**

(570) 945-8486

\*For the most current listings and office locations, visit [www.keystone.edu](http://www.keystone.edu).

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# **Directions to Keystone College**

## **To La Plume Campus**

*From the North:* I-81 South to Exit 202, Flectville/Tompkinsville; West 8 miles on Route 107, left on Routes 6 and 11 to Keystone College.

*From the South:* I-81 North to Exit 194, Clarks Summit; North 8 miles on Routes 6 and 11 to Keystone College or Pennsylvania Turnpike (Northeast Extension - Route 476): north to Exit 131, Clarks Summit; North 8 miles on Routes 6 and 11 to Keystone College.

*From New York City area:* I-80 West to I-380; West to I-81; North to Exit 194, Clarks Summit; North 8 miles on Routes 6 and 11 to Keystone College.

*From the West:* I-80 East to I-81; North to Exit 194, Clarks Summit; North 8 miles on Routes 6 and 11 to Keystone College.

*From the East:* I-84 West to I-380; West to I-81; North to Exit 194, Clarks Summit; North 8 miles on Routes 6 and 11 to Keystone College.

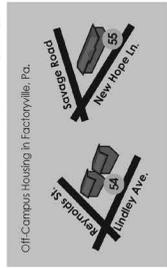
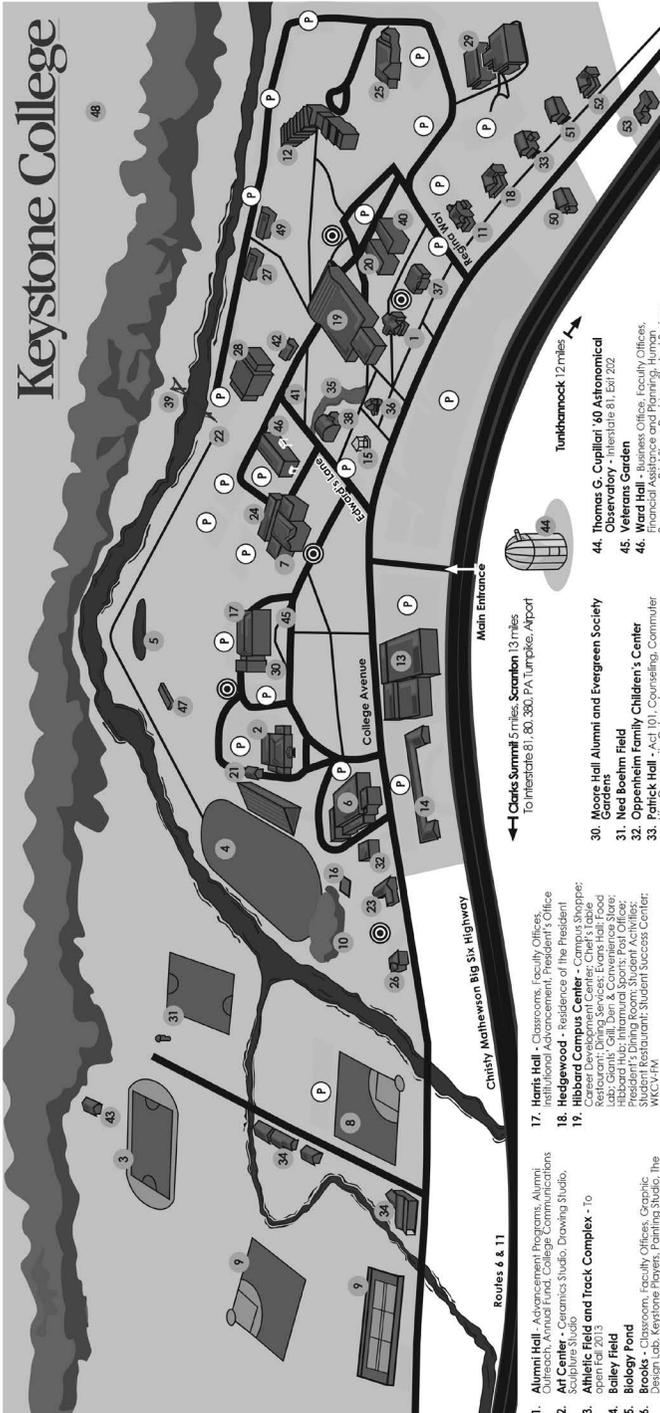
## **To Towanda Center**

*From New York's Southern Tier:* Route 117 West to Route 220 South to Route 6 East. The Towanda Center is located at 602 Main Street, which will be on your right.

*From Northeastern Pennsylvania:* Route 6 West to Towanda, cross bridge and turn right. The Towanda Center is located at 602 Main Street, which will be on your left.

*For directions to the Thomas G. Capillari '60 Observatory and the College's Athletic Fields, visit [www.keystone.edu](http://www.keystone.edu).*

# Keystone College



- Routes 4 & 11**
- Chisley Mathewson Big Six Highway**
- Main Entrance**
- Turinbarrack 12 miles**
- 44. Thomas G. Cullipart '60 Anatomical Observatory** - Interstate 81, Exit 202
- 45. Veterans Garden**
- 46. Ward Hall** - Business Office, Faculty Offices, Financial Aid Office, Registrar, Student Business Services, Veterans Certifying Official
- 47. Woodlands Amphitheater**
- 48. Woodlands Campus** - Nookmose Interpretive Trail
- 49. Wyoming Hall** - Courthouse Conservancy
- 50. 38 College Avenue** - AHC
- 51. 39 College Avenue** - Women's Residence Hall
- 52. 43 College Avenue** - Coed Residence Hall
- 53. 210 College Avenue** - Coed Residence Hall
- 54. 20, 22, 24, and 24 Reynolds Street** - Coed Residence Hall
- 55. 70 Savage Road** - Coed Residence Hall
- P** Parking
- S** Designated Smoking Area
- 17. Harris Hall** - Classrooms, Faculty Offices, Institutional Advancement, President's Office
- 18. Hedgewood** - Residence of the President
- 19. Hibbard Campus Center** - Campus Shopper; Restaurant; Dining Services; Evans Hall Food Lab; Gen's, Grill, Deli, & Convenience Store; Student Center; Student Activities; Student President's Dining Room; Student Activities; MKCV-HM
- 20. Hollinshead Residence Hall** - Keystone College's first residence hall (1961)
- 21. Holman Design Studio**
- 22. Howard Jennings Nature Preserve Entrance**
- 23. Information Technology Center**
- 24. Kemmerer Center** - Robert G. Urie '51 Mathematics and Science Center
- 25. Keystone Commons Residence Hall**
- 26. Koelsch Art Center** - Faculty Offices
- 27. Laccawanna Hall** - Keystone College
- 28. Miller Library** - Cummings Reading Room, Faculty Offices, Horvath Lounge, Linear Art Gallery, Post Office, Student Center, Student Center, Ruth Ross Reading Room and Garden Room
- 29. Morlat Residence Hall**
- 30. Moore Hall Alumni and Evergreen Society Gardens**
- 31. Ned Boehm Field**
- 32. Oppenheim Family Children's Center**
- 33. Physical Facilities Complex**
- 34. Rain Garden**
- 35. Sabiston Hall** - Campus Safety, Faculty Offices, Weekend Program
- 37. Sackler Hall** - Academic Affairs, Center for Global Studies, Student Affairs, President Emeritus, Residence Life
- 38. Sisson Hall** - Admissions and Vigors Center Students in 1986
- 39. Suspension Bridge** - Erected by Nookmose Students in 1986
- 40. University Residence Hall** - Health Services
- 41. The Celebration of Excellence Clock**
- 42. The Colledge** - Faculty Offices
- 43. The Sugar Shack**
- 1. Alumni Hall** - Advancement Programs, Alumni Outreach, Annual Fund, College Communications
- 2. Art Center** - Ceramics Studio, Drawing Studio
- 3. Athletics Field and Track Complex** - To open Fall 2018
- 4. Bailey Field**
- 5. Brooks** - Classroom, Faculty Offices, Graphic Design Lab, Keystone Players, Painting Studio, The Design Lab
- 6. Biology Pond**
- 7. Capwell Science Hall** - Classrooms, Faculty Offices, Labs
- 8. Chisley Mathewson Field**
- 9. Community Grove** - Basketball Court, Edmunds Field, Murray Tennis Center
- 10. Creekside Grove**
- 11. Davis Residence Hall**
- 12. Pearl Reynolds Residence Hall**
- 13. Athletics Center** - Faculty and Coaching Offices, Tomlinson Wellness Center, Locker Rooms, Weight Room
- 14. Gardner Hall** - Classrooms, Faculty Offices
- 15. Gatzbo on the Colledge Green**
- 16. Hall's Grove and Timmy's Garden**

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# ACADEMIC CALENDAR

## Traditional, 2013-2014

### Fall Term 2013

|                                      |                |
|--------------------------------------|----------------|
| Fall classes begin.....              | Aug. 26        |
| President's Opening Convocation..... | Aug. 29        |
| Labor Day; College closed.....       | Sept. 2        |
| Fall Break; no classes.....          | Oct. 7         |
| First-half classes end.....          | Oct. 11        |
| Second-half classes begin.....       | Oct. 14        |
| Midterm examinations.....            | Oct. 14-18     |
| Spring advising begins.....          | Oct. 21        |
| Thanksgiving break;                  |                |
| College closed.....                  | Nov. 27-Dec. 1 |
| College reopens.....                 | Dec. 1         |
| Fall classes end.....                | Dec. 6         |
| Final Examinations.....              | Dec. 9-13      |

### Spring Term 2014

|   |            |
|---|------------|
| Spring traditional classes begin.....   | Jan. 13    |
| President's Day; no classes.....        | Feb. 17    |
| First-half classes end.....             | Mar. 7     |
| Midterm examinations.....               | Mar. 3-7   |
| Spring break.....                       | Mar. 10-14 |
| College reopens;                        |            |
| Second-half classes begin.....          | Mar. 17    |
| Summer/Fall advising period begins..... | Mar. 24    |
| College closed.....                     | Apr. 21    |
| All-College Honors Convocation.....     | Apr. 24    |
| Spring classes end.....                 | May 2      |
| Final examinations.....                 | May 5-9    |
| Commencement.....                       | May 17     |

---

# ACADEMIC CALENDAR

## Traditional, 2014-2015

### Fall Term 2014

|                                      |            |
|--------------------------------------|------------|
| Fall classes begin.....              | Aug. 25    |
| President's Opening Convocation..... | Aug. 28    |
| Labor Day; College closed.....       | Sept. 1    |
| Fall Break; no classes.....          | Oct. 13    |
| First-half classes end.....          | Oct. 10    |
| Midterm examinations.....            | Oct. 13-17 |
| Second-half classes begin.....       | Oct. 13    |
| Spring advising begins.....          | Oct. 20    |
| Thanksgiving break;                  |            |
| College closed.....                  | Nov. 26-30 |
| College reopens.....                 | Dec. 1     |
| Fall classes end.....                | Dec. 5     |
| Final Examinations.....              | Dec. 8-12  |

### Spring Term 2015

|   |            |
|---|------------|
| Spring traditional classes begin.....   | Jan. 12    |
| President's Day; no classes.....        | Feb. 16    |
| First-half classes end.....             | Mar. 6     |
| Midterm examinations.....               | Mar. 2-6   |
| Spring break.....                       | March 9-13 |
| College reopens;                        |            |
| Second-half classes begin.....          | March 16   |
| Summer/Fall advising period begins..... | March 23   |
| College closed.....                     | Apr. 6     |
| All-College Honors Convocation.....     | Apr. 30    |
| Spring classes end.....                 | May 1      |
| Final examinations.....                 | May 4-8    |
| Commencement.....                       | May 16     |

---

# ACADEMIC CALENDAR

## Weekender, 2013-2014

### Fall Term 2013

|                     |             |
|---------------------|-------------|
| Weekender I.....    | Sept. 6-8   |
| Weekender II.....   | Sept. 20-22 |
| Weekender III.....  | Oct. 4-6    |
| Weekender IV.....   | Oct. 18-20  |
| Weekender V.....    | Nov. 1-3    |
| Weekender VI.....   | Nov. 15-17  |
| Finals Weekend..... | Dec. 6-8    |

### Spring Term 2014

|                     |                   |
|---------------------|-------------------|
| Weekender I.....    | Jan. 17-19        |
| Weekender II.....   | Jan. 31, Feb. 1-2 |
| Weekender III.....  | Feb. 21-23        |
| Weekender IV.....   | Mar. 7-9          |
| Weekender V.....    | Mar. 21-23        |
| Weekender VI.....   | Apr. 4-6          |
| Finals Weekend..... | Apr. 25-27        |

### Summer Term 2014

|                     |               |
|---------------------|---------------|
| Weekender I.....    | May 30-June 1 |
| Weekender II.....   | June 13-15    |
| Weekender III.....  | June 27-29    |
| Weekender IV.....   | July 11-13    |
| Weekender V.....    | July 18-20    |
| Weekender VI.....   | Aug. 1-3      |
| Finals Weekend..... | Aug. 8-10     |

# ACADEMIC CALENDAR

## Weekender, 2014-2015

### Fall Term 2014

|                     |                   |
|---------------------|-------------------|
| Weekender I.....    | Sept. 5-7         |
| Weekender II.....   | Sept. 19-21       |
| Weekender III.....  | Oct. 3-5          |
| Weekender IV.....   | Oct. 17-19        |
| Weekender V.....    | Oct. 31- Nov. 1-2 |
| Weekender VI.....   | Nov. 14-16        |
| Finals Weekend..... | Dec. 5-7          |

### Spring Term 2015

|                     |                    |
|---------------------|--------------------|
| Weekender I.....    | Jan. 16-18         |
| Weekender II.....   | Jan. 30-31, Feb. 1 |
| Weekender III.....  | Feb. 13-15         |
| Weekender IV.....   | Feb. 27-28, Mar. 1 |
| Weekender V.....    | Mar. 20-22         |
| Weekender VI.....   | Apr. 10-12         |
| Finals Weekend..... | Apr. 24-26         |

### Summer Term 2015

|                     |            |
|---------------------|------------|
| Weekender I.....    | May 29-31  |
| Weekender II.....   | June 12-14 |
| Weekender III.....  | June 26-28 |
| Weekender IV.....   | July 10-12 |
| Weekender V.....    | July 24-26 |
| Weekender VI.....   | Aug. 7-9   |
| Finals Weekend..... | Aug. 14-16 |

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# Notes

