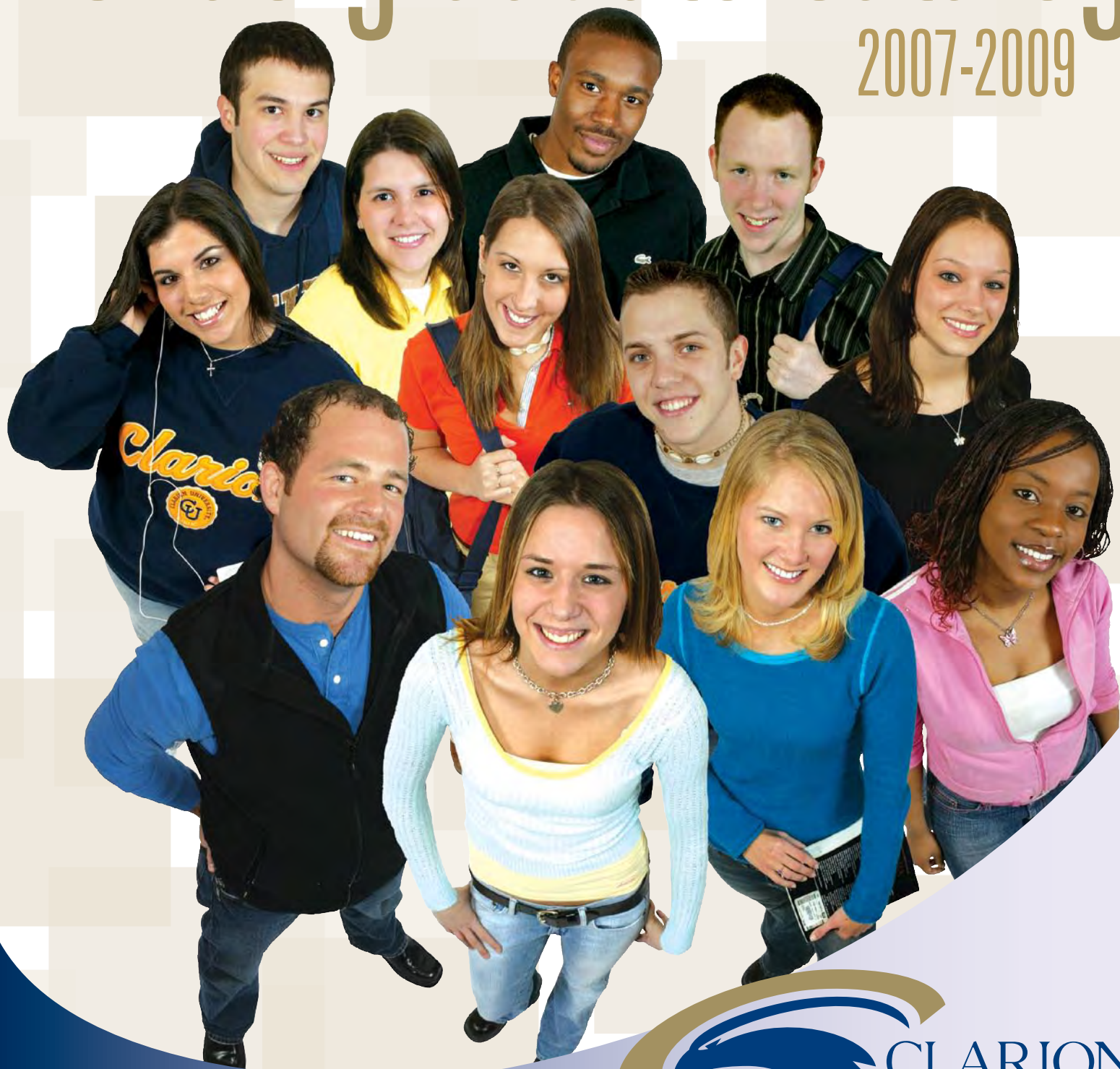


investing in lifetimes

Clarion University of Pennsylvania

Undergraduate Catalog

2007-2009



Message from the President

Welcome! In choosing to study at Clarion University, you have access to a wide array of high quality academic programs, many of which have earned specialized accreditation or approval. Clarion University's Undergraduate Catalog is a valuable tool that can unlock the wealth of learning opportunities that await you here. It has detailed information about the university's policies and requirements, general descriptions of courses of study and individual course content, and information about our faculty, administrators, and academic support programs.

Used in conjunction with regular academic advising, this catalog will help you make informed choices about your degree and major as well as elective courses that will provide you with a well-rounded course of study. Meeting with your advisor on a regular basis is an important part of accepting responsibility for your own education and progress.

May this catalog serve as a key resource as you consider and develop your educational goals. I encourage you to explore your interests and satisfy your intellectual curiosity as you form a basis for lifelong learning that will serve you throughout your academic and professional life. And, remember, all of us here at Clarion University stand ready to serve you.

Joseph P. Grunenwald
President



Clarion University of Pennsylvania

Clarion, Pennsylvania 16214-1232

814-393-2000

www.clarion.edu

Navigating the Catalog

Organization

Clarion University is comprised of three colleges (Arts and Sciences, Business Administration, Education and Human Services), one school (Nursing and Allied Health), one division (Graduate Studies), and the Venango Campus. Each of these units consists of smaller subunits called departments or programs. The academic year is divided into two terms: (Fall, Spring) and three summer sessions.

Where to find it

The catalog is composed of two main sections. The first contains information about the academic calendar, admissions, registration, tuition and fees, financial aid, student services, and student activities.

The second section describes the university's academic programs. The curriculum section begins with a description of the General Education program, which every student receiving an undergraduate degree from Clarion completes. Next, each of the six major units of Clarion University (the three colleges, the School of Nursing and Allied Health, the Graduate Studies Division, and the Venango Campus) is described. Each unit's description is composed of a brief overview of the division followed by more in-depth descriptions of the departments and programs making up that division. Within each unit, departments and programs are presented in alphabetical order. For example, in the College of Arts and Sciences, the first program listed is anthropology. The anthropology description, like the entries for all programs, describes the field, lists the required courses for majoring in that field, provides ways to get more information about Clarion's program, and provides brief descriptions of all the courses offered by that academic program.

Still can't find it?

In addition to the Table of Contents, an index is included at the back of the catalog. If you are having trouble finding information about an academic program, consult the Index.

Definitions

The academic terms defined below are used throughout this catalog.

Academic credit. A measure of the total time commitment an average student is expected to devote to learning per week of study. Generally, one unit of credit represents a total of three hours per week of in-class and out-of-class work (Carnegie Unit of Credit). At Clarion University, a three-credit lecture class is generally required to meet for 2,250 minutes, excluding the final examination period.

Course. A subject, or an instructional subdivision of a subject, offered through a single term. Each course offered by the university is assigned a course level. Courses numbered 000-099 cannot be applied toward graduation; courses numbered 100-299 are lower division, and courses numbered 300-499 are upper division.

Curriculum. An organized program of study arranged to provide integrated cultural or professional education.

Discipline. A branch of learning or field of study, e.g., mathematics, history, psychology.

Electives. Courses that students may choose to take, as contrasted with required courses.

Interdisciplinary or Multidisciplinary. A course of study from two or more academic disciplines.

Major. A primary undergraduate or graduate field of specialized study.

Minor. A secondary undergraduate field of specialized study.

Prerequisite. A course or other educational requirement that must be completed prior to another course or before proceeding to more advanced study.

Semester. One-half the academic year, excluding summers. At Clarion, an academic year is comprised of a Fall and Spring semester.

Seminar. A small group of students studying a subject with direction from a faculty member. Although practices vary, students may do original research and exchange results through informal lectures, reports, and discussions.

Sequence. Two or three closely related courses that typically must be taken in a specified order.

Quality-Point Average (QPA). QPA is a quality-point average. It can range from 0.00 (all E's) to 4.00 (all A's).

Student Responsibility for Academic Requirements

Provisions in the Clarion *Undergraduate Catalog* cannot be considered an irrevocable contract between the university and the student.

The university makes every effort to keep information in the catalog current. It must reserve the right, however, to amend any academic, administrative, or disciplinary policies or regulations and to update fees or service charges described in this catalog without prior notice to people affected. Students are held responsible for reading and understanding the academic, administrative, and disciplinary policies or regulations and for understanding general education requirements. They are held responsible for the requirements of a major in effect at the time they officially declare a major. If students change majors, they are responsible for the requirements of the major in effect when they officially change majors.

Requirements for graduation as well as those for various curricula and degree programs may change after students matriculate at Clarion. In most instances, such changes will not be retroactive, although students will have the option to elect to meet the new program requirements, if desired. Exceptions may be necessary when changes in professional certification or licensure standards mandate such changes in requirements or programs.

Clarion University of Pennsylvania is authorized under federal law to enroll non-immigrant alien students.

Vol. LXXVVVV

July 2007

No. 1

Published biennially by the Council of Trustees

Accreditations, Approvals, Certifications, Affiliations, and Registrations

- AACSB International—The Association to Advance Collegiate Schools of Business
College of Business Administration/Baccalaureate and Master's degree programs
- Accreditation Association for Ambulatory Health Care
Division of Student and University Affairs/Keeling Student Health Center
- American Bar Association (ABA)
College of Business Administration/Department of Finance/Legal Business Studies Program (approved)
- American Chemical Society
College of Arts & Sciences/BS Chemistry (approved)
- American Library Association (ALA)
College of Education and Human Services/Dept. of Library Science/Master of Science in Library Science
- Association for Childhood Education International (ACEI)
College of Education and Human Services/Elementary Education
- Association of Small Business Development Centers (ASBDC)
Small Business Development Center
- Certified Financial Planner Board of Standards, Inc.
College of Business Administration/Financial Planning Curriculum (registered)
- College Reading and Learning Association (CRLA)
College of Arts and Sciences/Department of English/Writing Center Tutoring Program (certified)
Division of Enrollment Management/Center for Academic Enrichment Tutoring Program (certified)
Venango Campus/Learning Support Centers (certified)
- Council for Exceptional Children (CEC)
College of Education and Human Services/Special Education
- Council on Academic Accreditation of the American Speech Language Hearing Association (ASHA)
Department of Speech Pathology and Audiology/Master Degree in Speech Language Pathology
- International Association of Counseling Services Inc.
Division of Student and University Affairs/Department of Counseling Services
- International Reading Association (IRA)
College of Education and Human Services/Reading
- Middle States Commission on Higher Education
3624 Market Street, Philadelphia, PA 19104-2680
Phone: 215-662-5606
- National Association for the Education of Young Children (NAEYC)
College of Education and Human Services/Department of Education/Early Childhood Program
Earl R. Siler Children's Learning Complex
- National Association of Schools of Art and Design (NASAD)
College of Arts and Sciences/Art
- National Association of Schools of Music (NASM)
College of Arts and Sciences/Department of Music
- National Council for Accreditation of Coaching Education (NCACE)
College of Education and Human Services/Dept. of Health and Physical Education/Coaching Education
- National Council for Accreditation of Teacher Education (NCATE)
College of Education and Human Services/Teacher Education Programs
- National Council for the Social Studies (NCSS)
College of Education and Human Services/Social Studies
8555 Sixteenth Street, Silver Spring, MD 20910
- National Council of Teachers of English (NCTE)
College of Education and Human Services/English Education
1111 Kenyon Road, Urbana, IL 61801-1096

- National Council of Teachers of Mathematics (NCTM)
 - College of Education and Human Services/Mathematics Education
 - 1906 Association Drive, Reston, VA 20191-1502
- National Council on Economic Education (NCEE)
 - Center for Economic Education (affiliated)
 - 1140 Avenue of the Americas, New York, NY 10036
- National League for Nursing Accrediting Commission (NLNAC)
 - School of Nursing/Associate Degree Program
 - School of Nursing/Baccalaureate Degree Program
 - School of Nursing/Master Degree Program
- National Science Teachers Association (NSTA)
 - College of Education and Human Services/Science Education and Secondary Science Education
 - 1840 Wilson Boulevard, Arlington, VA 22201-3000
- Pennsylvania Department of Education/College of Education & Human Services/
 - Teacher Certification Programs (approved)
- U.S. Department of Education (approved)
- U.S. Department of Veterans Affairs (approved)

It is the policy of Clarion University of Pennsylvania that there shall be equal opportunity in all of its educational programs, services, and benefits, and there shall be no discrimination with regard to a student's or prospective student's race, color, religion, sex, national origin, disability, age, sexual orientation/affection, veteran status or other classifications that are protected under Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and other pertinent state and federal laws and regulations. Direct equal opportunity inquiries to: Assistant to the President for Social Equity, Clarion University of Pennsylvania, 207 Carrier Administration Building, Clarion, PA 16214-1232, 814-393-2109, and direct inquiries regarding services or facility accessibility to 504/ADA Coordinator (Assistant Director for Social Equity), 207 Carrier Administration Building, Clarion, PA 16214-1232, 814-393-2000; (or to the Director of the Office for Civil Rights, Department of Education, 330 Independence Avenue, SW, Washington, DC 20201).

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**Clarion University
Academic Calendar 2007-08**

(Subject to change without notice)

Fall Semester 2007

Registration for day and evening classes Monday, August 27
 Classes begin 8 a.m. Monday, August 27
 Labor Day Holiday Monday, September 3
 Midsemester Break begins 10 p.m. Thursday, October 4
 Midsemester Break ends 8 a.m. Monday, October 8
Friday classes meet in place of Tuesday classes Tuesday, November 20
 Thanksgiving Holiday begins 10 p.m. Tuesday, November 20
 Thanksgiving Holiday ends 8 a.m. Monday, November 26
 Classes end 10 p.m. Friday, December 7
 Final Examination Period begins Monday, December 10
 Final Examination Period ends 10 p.m. Friday, December 14
 Semester ends 10 p.m. Friday, December 14
 Winter Commencement Saturday, December 15
 Semester grades due from faculty Thursday, December 20

Winter Intersession - 2007

Registration and Drop/Add; Classes begin Monday, December 17
 Final Exams Monday, January 7
 Winter Intersession grades due from faculty Thursday, January 10

Spring Semester 2008

Registration for day and evening classes Monday, January 14
 Classes begin 8 a.m. Monday, January 14
 Martin Luther King Jr. Birthday observed Monday, January 21
 Winter Holiday begins 10 p.m. Friday, March 7
 Winter Holiday ends 8 a.m. Monday, March 17
 Spring Vacation begins 10 p.m. Wednesday, March 19
 Spring Vacation ends 8 a.m. Wednesday, March 26
Monday classes meet in place of Wednesday classes Wednesday, March 26
 Classes end 10 p.m. Friday, May 2
 Final Examination Period begins Monday, May 5
 Final Examination Period ends 10 p.m. Friday, May 9
 Semester ends 10 p.m. Friday, May 9
 Spring Commencement Saturday, May 10
 Semester grades due from faculty Thursday, May 15

Summer Sessions - 2008

Session I: Pre-session May 12 – May 30
 Session I: Regular Session June 2 – July 3
 Session II: Regular Session July 7 – August 8

**Clarion University
Academic Calendar 2008-09**

(Subject to change without notice)

Fall Semester 2008

Registration for day and evening classes Monday, August 25
 Classes begin at 8 a.m. Monday, August 25
 Labor Day Holiday Monday, September 1
 Midsemester Break begins 10 p.m. Thursday, October 2
 Midsemester Break ends 8 a.m. Monday, October 6
 Thanksgiving Holiday begins 10 p.m. Tuesday, November 25
Friday classes meet in place of Tuesday classes Tuesday, November 25
 Thanksgiving Holiday ends 8 a.m. Monday, December 1
 Classes end 10 p.m. Friday, December 5
 Final Examination Period begins Monday, December 8
 Final Examination Period ends 10 p.m. Friday, December 12
 Semester ends 10 p.m. Friday, December 12
 Winter Commencement Saturday, December 13
 Semester grades due from faculty Thursday, December 18

Winter Intersession - 2008

Registration and Drop/Add; Classes begin Monday, December 15
 Final Exams Monday, January 5
 Winter Intersession grades due from faculty Thursday, January 8

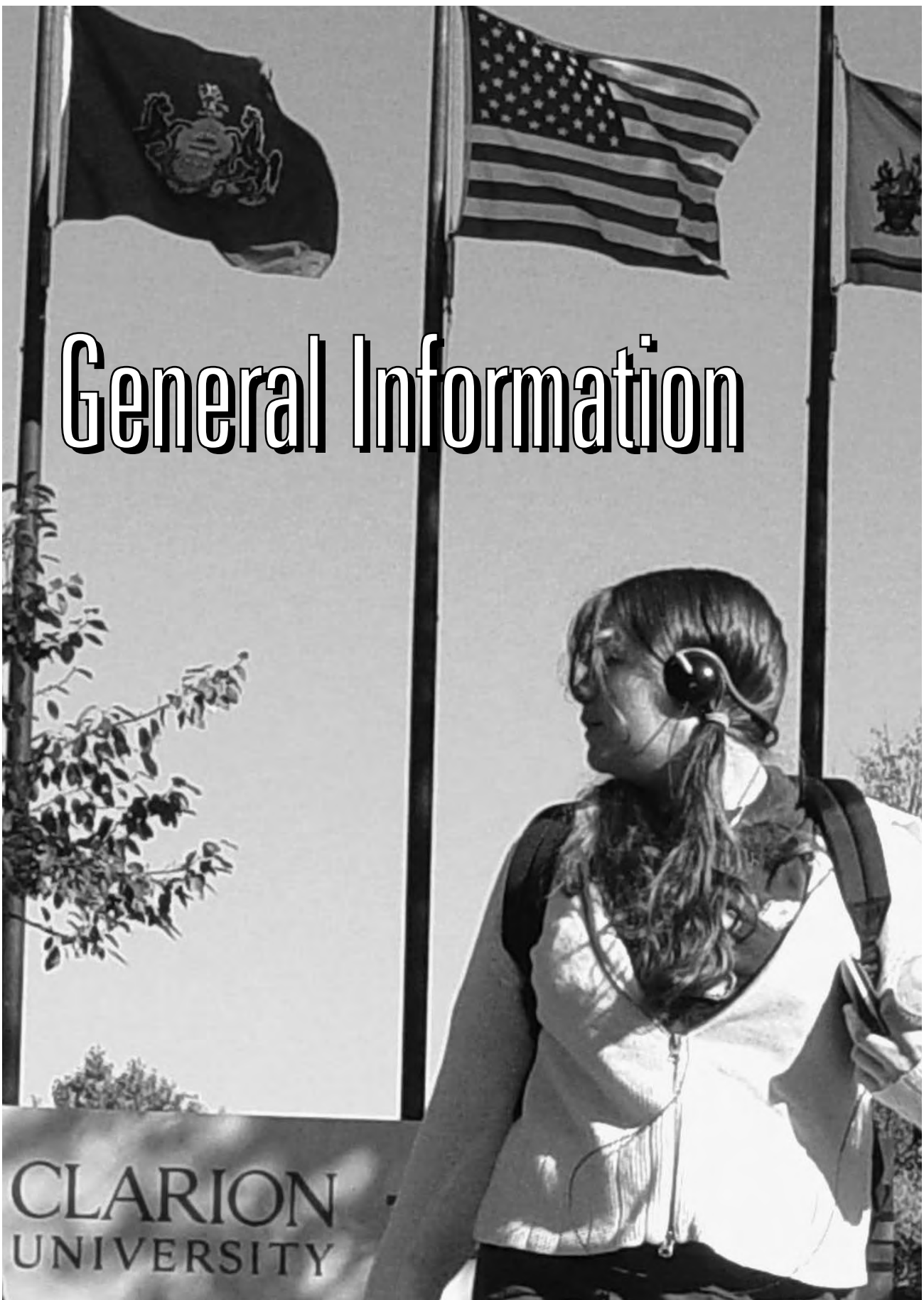
Spring Semester 2009

Registration for day and evening classes Monday, January 12
 Classes begin 8 a.m. Monday, January 12
 Martin Luther King Jr. Birthday observed Monday, January 19
 Winter Holiday begins 10 p.m. Friday, February 27
 Winter Holiday ends 8 a.m. Monday, March 9
 Classes end 10 p.m. Monday, April 27
 Final Examination period begins Tuesday, April 28
 Final Examination period ends 10 p.m. Friday, May 1
 Semester ends 10 p.m. Friday, May 1
 Spring Commencement Saturday, May 2
 Semester grades due from faculty Thursday, May 7

Summer Sessions - 2009

Session I: Pre-Session May 4 – May 21
 Session II: Regular Session June 1 – July 3
 Session III: Regular Session July 6 – August 7

General Information



CLARION
UNIVERSITY

General Information

Mission

Clarion University seeks to excel in all that it does and challenges students to develop their talents, extend their intellectual capacities and interests, expand their creative abilities, and develop a respect and enthusiasm for learning that will extend throughout their lives. The university acknowledges that learning requires a partnership demanding hard work by students, faculty, and staff, and that learning extends beyond the classroom. The university community is dedicated to helping students see in themselves what they may become by creating opportunities to develop the knowledge, skill, and attitudes necessary for both enlightened citizenship and successful participation in a technologically advanced, global society.

Clarion University is primarily an undergraduate institution with selected graduate programs. Instructional programs—delivered on campus, throughout the state, and beyond via appropriate distance learning technologies—range from associate degrees and certificate programs to baccalaureate degree programs in the arts and sciences and professional fields, graduate programs in selected fields, and continuing education. University programs are administered through campuses in Clarion and Oil City.

Clarion University seeks to admit, retain, and graduate students who are qualified and motivated, and to recruit, retain, and support highly qualified and dedicated faculty and staff. The university is a learning community that seeks diversity in its faculty, staff, and student body and values this diversity as providing richness in the learning process. This community strives to treat its members with civility and respect. Students, faculty, and staff value learning, contribute to the development of new knowledge through scholarly activities, and participate in community and public service responsive to the needs of society.

Approved by the Council of Trustees on 1/18/01

Vision

Clarion University of Pennsylvania will serve the commonwealth ever more effectively as a high-quality, dynamic, technologically advanced, publicly-owned university dedicated to advancing knowledge with a focus on learning and collaborating with educational and business partners. Clarion University will be accessible to students from diverse backgrounds, accountable to its many constituencies, and actively engaged in the continuous improvement of its programs, services, faculty, and staff. Above all, Clarion University will prepare students to succeed in the global economy, to contribute to the economic and social well-being of the commonwealth and the nation, to play constructive roles in their communities, and to lead productive and meaningful lives, including a passion for continuous learning.

Approved by the Council of Trustees on 1/18/01

Core Values

1. We believe in the learning potential of all our students who are willing to invest hard work in the pursuit of their education.
2. We are committed as a faculty, staff, and administration to creating opportunities for all our students to achieve success beyond their own expectations within an environment that cultivates tolerance, civility, and respect.
3. We value the individual relationship between student and faculty as central to the learning process and recognize the contributions of staff in providing the necessary support for that endeavor.
4. We believe that we exist to serve the needs of all people of the Commonwealth of Pennsylvania and to advance higher education as a public good.
5. We are committed to advancing our relationships with the larger communities of which we are a part.

Approved by the Council of Trustees on 1/18/01





Non-Discrimination Statement

It is the policy of Clarion University of Pennsylvania that there shall be equal opportunity in all of its educational programs, services, and benefits, and there shall be no discrimination with regard to a student's or prospective student's race, color, religion, sex, national origin, disability, age, sexual orientation/affection, veteran status, or other classifications that are protected under Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and other pertinent state and federal laws and regulations. Direct equal opportunity inquiries to: Assistant to the President for Social Equity, 207 Carrier Administration Building, 840 Wood Street, Clarion, PA 16214-1232, 814-393-2109; and direct inquiries regarding services or facility accessibility to the compliance specialist, 207 Carrier Administration Building, 840 Wood Street, Clarion, PA 16214-1232, 814-393-2000; (or to the Director of the Office for Civil Rights, Department of Education, 330 Independence Avenue, SW, Washington, DC 20201).

Correspondence

The address for all administrative correspondence may be sent to the following:

Clarion University of Pennsylvania
840 Wood Street
Clarion, PA 16214-1232
Telephone: 814-393-2000

Clarion Campus

Now well into its second century of service to the people of Pennsylvania, Clarion University has successively been Carrier Seminary, a state normal school, a state teachers' college, a state college, and beginning July 1, 1983, a university in the Pennsylvania State System of Higher Education. Each phase of this development has marked a stage in the continuing effort of the institution to respond to the educational needs and aspirations of increasing numbers of students.

Today, Clarion University is a multi-purpose institution with an enrollment of approximately 6,000 students offering associate, baccalaureate, and graduate programs. Clarion University is recognized by 25 accrediting agencies.

The Clarion Campus of the university contains 100 acres and 43 buildings. Beyond the Clarion Campus, situated at the west end of the town of Clarion, is a 27-acre athletic complex with football, baseball, and practice fields and Memorial Stadium, seating 5,000 spectators. The university is within the Borough of Clarion some two miles north of Interstate 80 at Exits 62 and 64 and is approximately 2 1/2 hours' driving time from the urban centers of Pittsburgh, Erie, and Youngstown. High on the Allegheny Plateau overlooking the Clarion River, the rural setting is in the midst of one of Pennsylvania's most scenic resort areas.

Among facilities supporting programs and students at Clarion University are the Carlson and Suhr Libraries, the George R. Lewis Center for Computing Services, more than two dozen computer laboratories, a planetarium, science laboratories having excellent instrumentation, smart classrooms, radio and television studios, a writing center, tutorial services, a counseling center, a state-of-the-art recreation center, residence halls that are completely wired for high speed Internet access, a modern student center, and excellent food services across the campus.

Venango Campus

Venango Campus of Clarion University, established in 1961, was the first branch campus in the Pennsylvania State System of Higher Education. Located in Oil City, Venango Campus is scenically situated on 62 acres surrounded by heavily-wooded foothills overlooking the Allegheny River.

Venango Campus is appropriate for students who prefer the atmosphere of a small campus with its capacity for providing individual attention for each student and for permitting and encouraging varied student-initiated activities.

To earn an associate degree, a minimum of 30 credit hours must be completed at Clarion University–Venango Campus. Venango Campus offers programs for both part-time and full-time students. Students may study toward associate degrees in administration technology, allied health, arts and sciences, business administration, criminal justice, early childhood education, industrial technology,

legal business studies, nursing, rehabilitative services, and respiratory care. An Honors Program for students with high academic potential offers an enhanced college experience.

Students may also complete the first two years of study toward any of Clarion University's 90-plus bachelor's degree programs. Complete baccalaureate degrees offered at Clarion University–Venango Campus include radiologic science and nursing. A Master of Science in Nursing degree is offered with Nurse Practitioner and Nursing Education concentrations. An Executive Master of Business Administration degree is offered through a blend of live classes on weekends and Web-based courses. Graduate programs and courses are offered for specific student cohorts.

Other programs offered at the Venango Campus include 11 certificates that can be completed in one year or less and a variety of continuing education courses and seminars.



Student and University Affairs

Student and University Affairs



Student and University Affairs

Harry E. Tripp, M.Ed., vice president for student and university affairs

222 Egbert Hall

Telephone: 393-2351

E-mail address: htripp@clarion.edu

Website: www.clarion.edu/student/

The Division of Student and University Affairs includes Student Affairs and University Advancement. The division advances and complements the educational mission of the university through the collaborative efforts of four centers that provide services and programs to support personal development, a positive learning environment in which diversity is valued, and lifelong involvement in learning experiences for students and alumni. The four centers include: Student Programming and Services, Sports and Recreation, Advancement, and University Relations.

Student Programming and Services Center

David Tomeo, M.A., associate vice president for student and university affairs

224 Egbert Hall

Telephone: 393-2351

E-mail address: dtomeo@clarion.edu

The student programming and services center is one of four centers in the Student and University Affairs division. The center's vision is to promote student development and to enhance student and constituent satisfaction with their experiences at, and interactions with, Clarion University. The mission is to provide programs, services, and activities in response to needs identified by students and other constituents of Clarion University.

Programming and services that fall under the domain of this center are Residence Life Services, dining services, Health and Counseling Services, the Career Services Center, Judicial and Mediation Services, the one-card system, and Campus Life. The center is also responsible for all auxiliary facilities on campus including the residence halls, the Gemmell Student Complex, the Student Recreation Center, and Chandler Dining Hall.



Residence Life Services

Michelle L. Kealey, director of residence life services

230 Egbert Hall

Telephone: 393-2352

E-mail address: reslife@clarion.edu

Website: www.clarion.edu/reslife

Clarion University houses approximately 1,515 students in five residence halls, providing both single-sex and coed by floor or wing living arrangements. Reinhard Villages houses just over 650 students. Combined, we provide approximately 2,000 beds for Clarion students. Beginning Fall 2007, transfers with less than 24 earned credits and first-time-in-college students whose permanent address is greater than 30 miles from campus are required to live in university-affiliated housing. You may choose to live in our on-campus traditional residence halls or in an apartment in Reinhard Villages. Both the residence halls and Reinhard Villages have a cross-section of students representing most aspects of a highly diverse student body. Housing assignments are made without regard to race, religion, color, sexual orientation, ancestry, or national origin. Hall and roommate preferences are taken into consideration when making assignments and are honored whenever possible. Housing assignments and roommate information are mailed out in mid-July from both facilities.

Graduate managers and undergraduate resident assistants, under the guidance and supervision of professional area coordinators, staff the residence halls. Rooms are furnished with beds, desks, chairs, dressers, and closets or wardrobes. Apartments at Reinhard are completely furnished with a washer/dryer, dishwasher, and garbage disposal. Students should plan to furnish linens, blankets, pillows, bedspreads, desk lamps, a telephone, and other personal items. Local telephone service, cable, and high-speed Internet are included in room fees. On-campus students are able to sign up for long-distance telephone services through ALLTEL. Residence halls offer coin/Eagle Dollar-operated laundry facilities and vending machines, TVs, and study lounges. Kitchen facilities and/or microwave ovens are available for student use.

The campus is served by two 24-hour service desks: the Nair Area desk, located in the lower level of Nair Hall serving Nair and Wilkinson halls, and the Givan Area desk located in the lobby of Givan Hall, serving the residents of Ballentine, Becht, and Givan halls. The desks are open 24 hours a day, seven days a week, when school is in session. The desks serve many roles for our residence hall students including, but not limited to, primary contact points for the hall staff, package pick-up location for residence hall students, computer labs, equipment sign-out, and temporary key sign-out.

A room may be occupied only by the students to whom it is assigned. The agreement may not be transferred. The residence hall agreement is in effect for the entire academic year, unless otherwise specified. The only grounds for release from the housing agreement are withdrawal from

the university, graduation, or a change in student teaching or internship assignment.

Residence hall applications must be submitted annually, and returning students will be notified of the times the applications are available. For incoming students, applications will be accepted on a rolling basis. Housing information and applications will be made available to new students once they have committed to attending Clarion University. Once an application is received by our office, students will receive further information about submitting their residence hall agreement and their non-refundable deposit.

Fees for housing and food services are due and payable at the same time as other university fees. Refunds cannot be made unless the student withdraws from the university or is granted an agreement release. Refund policies for housing and food service are listed in the refund section and follow the university refund schedule.

Campus residence halls are closed during university vacations and between semesters.

Dining Services

Chandler Dining Hall provides a variety of delicious meals on an all-you-can-eat basis. From a hot breakfast to deli or grill items and inviting entrees, our dining service offers something for everyone. There are a variety of meal plans from which students may choose to complement their busy schedules. Residence hall students are required to have a meal plan and students who reside off-campus may select a meal plan that best suits their needs.

Office of Campus Life

Jeffrey N. Waple, Ph.D., director of Campus Life and Gemmell Student Complex

251 Gemmell Student Complex

Telephone: 393-2311

E-mail address: jwaple@clarion.edu

Website: www.clarion.edu/student/ocl

The Office of Campus Life provides programming and services in the areas of Transition Services, Parent and Family Services, Recognized Student Organizations (RSO), Fraternity and Sorority Affairs, University Activities Board (UAB), Events and Scheduling, Leadership Development and Training, Minority Student Services, and operation of the Gemmell Student Complex. Specific information describing the functions of each area is provided below:

Gemmell Student Complex

The Gemmell Student Complex is the student center on campus and serves as a meeting and gathering place for our student body as well as the central location for campus organizations to hold events. The university bookstore, the newly renovated Gemmell Food Court (Mondo Subs, Mamma Leone's, Baja Flats, Big Smash Burgers, and Outtakes), the Ritazza Coffee Shop, nine meeting rooms, the multi-purpose room, three racquetball courts, and several

TV lounges are located in the facility. Administrative offices located in the student center include the Office of Campus Life, Minority Student Services, the Clarion University Credit Union, the Clarion Students' Association, and the *Clarion Call*, the campus newspaper. Six major student organizations also have their offices in Gemmell, including Student Senate, the UAB, Interfraternity and Panhellenic Councils, the Black Student Union, and Interhall Council.

The Information Desk is located on the second floor of the Gemmell Student Complex. The information desk also serves as a central location to sign up for RSO trips and events, check out laptop computers, and purchase tickets for university activities including concerts and theatre productions.

Transitions Services

Joseph Croskey

Telephone: 393-1766

E-mail address: jcroskey@clarion.edu

Website: www.clarion.edu/student/transitions/index.html

Our Transitions program builds a foundation for first-year students through activities supporting retention initiatives. First-year programs include Summer Orientation, Discovery Weekend, and Exploration programs. Sophomore through senior programming, including Focus and Academic Mentoring programs, are additional components of Transitions. Personnel in Transitions also provide leadership for assisting in planning Family Day and Activities Day events.

Parent and Family Services

Telephone: 393-1767

E-mail address: parents@clarion.edu

Website: www.clarion.edu/student/transitions/6-family/family.html

Parent and Family Services provide support to parents and family members of our Clarion University students. Specific programs include planning Family Day, the family and guest portions of Orientation, providing resources for parents and families, and providing leadership to the Clarion University Parents' Council and the Parents Council Executive Board. Parents are encouraged to participate on committees and to be active partners in the collegiate experience of their university student.

Student Involvement and Organizations

Shawn Hoke

E-mail address: shoke@clarion.edu

Website: www.clarion.edu/student/ocl/studorg.html

Campus Life provides support and programs for more than 150 recognized student organizations. The office is responsible for maintaining accurate listings of members and advisors, providing training workshops for members and advisors, and encouraging diverse programming for student organizations.

Fraternity and Sorority Affairs**Shawn Hoke**E-mail address: shoke@clarion.eduWebsite: www.clarion.edu/student/ocl/greeklife.html

Campus Life provides programs, advisement, and services for students involved with fraternities and sororities. It is responsible for advising Interfraternity Council, the governing body for the three social fraternities, advising the Panhellenic Association, the governing body for the five social sororities, and for providing educational and leadership programs for students involved with these organizations.

Leadership Development and Training**Shawn Hoke**E-mail address: shoke@clarion.eduWebsite: www.clarion.edu/student/ocl/leadership.html

Campus Life provides leadership development opportunities and training programs for the entire campus. It is responsible for coordinating the Mary Walter Leadership Development Series and other leadership and training programs for Clarion University students, staff, faculty, alumni, and the community.

University Activities Board**Jamie Bero**E-mail address: jbero@clarion.eduWebsite: www.clarion.edu/groups-orgs/uab/

The University Activities Board (UAB) provides a range of programs for Clarion University including Activities Day, Homecoming, and CampusFest. The UAB also provides programs in the areas of the arts, concerts, lectures, multi-cultural programming, recreation, union, and special events.

Minority Student Services**Rogers Laugand, M.A., director**

Telephone: 393-2043

E-mail address: rlaugand@clarion.eduWebsite: www.clarion.edu/student/mss

The Office of Minority Student Services provides support for minority students' psychological, emotional, and social adjustment to college life through such initiatives as the Building Bridges program, MLK Series, Project S.O.A.R., and advising RSOs such as the Black Student Union, Leadership Institute, and the Asian Student Integrated Association. The office and our multi-cultural lounge are located in the Gemmill Student Complex.

Office of Conference and Event Services**Erin Schuetz, coordinator of events and scheduling**

Carolyn Nick, events scheduler

Carl Callenburg, auditoria manager

Telephone: 393-2705

Fax: 393-2509

E-mail address: spacerquest@clarion.eduWebsite: www.clarion.edu/events

The Office of Conference and Event Services is responsible for scheduling campus event spaces for non-academic events. The office facilitates and coordinates activities for RSOs and campus administration offices. Student groups and affiliated departments can reserve space by accessing <http://schedule.clarion.edu> or www.clarion.edu/events. The office is also responsible for coordination of facilities and services by external groups, conferences, and camps.

Health and Counseling Services**Susan Bornak, M.S.N.-C.R.N.P., administrative director**

Keeling Health Services Center

Telephone: 393-2121

E-mail address: sbornak@clarion.eduWebsite: www.clarion.edu/healthcenter

Keeling Health Center, accredited by the Accreditation Association for Ambulatory Health Centers (AAAHC), provides health services and wellness promotion to the student community of Clarion University. The health center is located at the northwest corner of the campus near Givan Hall. A highly-credentialed staff, including contracted physicians, certified registered nurse practitioners, and registered nurses certified in college health, provide specialized student health services. Operating hours are 9 a.m.-5 p.m., Monday-Friday. After hours and emergency services are available from a variety of community providers.

The services of the health center are similar to those provided in a physician's office. Specific services include: physical examinations, immunizations, allergy injections, medication and prescriptions, pregnancy testing, treatment of acute and chronic illnesses and injuries, and referral to appropriate community resources. Proper immunization is highly recommended prior to university entrance. Pennsylvania Senate Bill 955, passed into law on June 28, 2002, mandates that all university students living in residence halls be immunized against meningitis or sign an informed declination statement. The American College Health Association also supports the meningitis vaccine.

The health service fee includes an unlimited number of visits to the health center. There may be additional charges for medications or procedures associated with the visit. Students are strongly encouraged to contact their primary insurance carrier to determine the conditions and limitations, if any, on medical treatment away from home.

Health Insurance

The health center fee includes basic provider services within the Keeling Health Center. Charges for laboratory, X-ray, outpatient, or inpatient services at other facilities, and medications are not covered, and are the responsibility of the individual student. Health insurance coverage is strongly encouraged prior to enrollment at Clarion University.

In an attempt to offer students an affordable health insurance option, Clarion University has collaborated with nine other universities in the Pennsylvania State System of Higher Education to offer an economical and comprehensive insurance policy to students not covered by their parents' policy. Consolidated Health Plans (www.consolidatedhealthplan.com) has been selected as the insurance provider, and students may choose from a variety of options.

Parents who plan to continue a son or daughter on family insurance plans should contact their insurance provider to determine the effects of university entrance upon dependent coverage, particularly under managed care plans.

University policy requires students have medical insurance coverage to be eligible for participation in university-sanctioned, sponsored, and/or approved activities, including intercollegiate sports. The assumption is students participating in such activities are covered by medical insurance, and proof of coverage can be produced upon the university's request. Students interested in obtaining insurance from Consolidated Health Plans should contact the director of health services, 814-393-2121.

Counseling Services

Website: www.clarion.edu/student/counseling

The Department of Counseling Services offers short-term episodic individual, couple, and group counseling to all students, without charge. Counseling Services provides professional help with personal, social, and career concerns including e-Discover, a Web-based career planning program.

Students may request counseling on their own initiative or may be referred by faculty, staff, or other students. In keeping with accepted professional practice, counseling contacts are strictly confidential unless there is a clear immediate threat to self or others.

Appointments can be made by calling the counseling center at 393-2255 or by stopping by the office in 148 Egbert Hall. Counseling services are available Monday through Friday from 8:30 a.m.-4:30 p.m. during the fall semester. There are limited hours during the summer months. The Department of Counseling Services is accredited by the International Association of Counseling Services, Inc.

Career Services Center

Connie J. Laughlin, M.Ed., director

114 Egbert Hall

Telephone: 393-2323

E-mail address: claughlin@clarion.edu

Website: www.clarion.edu/career

Clarion University offers a number of services to assist students with their career, educational, and employment plans. The Career Services Center works with students individually and through programs and classroom presentations to assist them in developing life-long career planning and job search skills. Students can obtain career and job search information from its career resource room, office publications, and Website. In addition, staff members use several listservs and an e-newsletter to communicate with students and provide career information and advice.

The Career Services Center provides students with information regarding experiential education opportunities related to their personal interests, course requirements, or career exploration needs. The center oversees several databases and serves as a clearinghouse for opportunities related to volunteerism, service-learning, part-time jobs, and internships. Staff members administer the Off-Campus Community Service Federal Work-Study program and coordinate the Experience Expo event.

The Career Services Center offers a number of resources for students as they prepare to enter the workforce. Students can develop job search skills by participating in the center's professional development seminars, resume clinic, and mock interview program, and meeting with a staff member to organize job application materials. The center also works to help students make connections with employers by arranging on-campus interviews, offering an on-line career services registration and resume posting service, providing a resume search for employers, coordinating a database of employment opportunities, and sponsoring a number of career events through the academic year.

Judicial and Mediation Services

Scott P. Horch, M.A., director

204 Egbert Hall

Telephone: 393-1918

E-mail address: horch@clarion.edu

Website: www.clarion.edu/student/residencelife/judicial.htm

The Office of Judicial and Mediation Services promotes responsible citizenship by protecting student rights and maintaining the principles outlined in the *Student Rights, Regulations, and Procedures Online Handbook*. The office administers campus disciplinary procedures, seeks to maintain a positive living and learning environment, and encourages the building of a respectful and inclusive community.

The office also serves as a resource to the university community regarding conflict management and resolution by providing services that promote the development of critical life skills. A mediation service is available to assist students in resolving interpersonal conflicts.

Sports and Recreation Center

**David J. Katis, M.Ed., executive director
and director of intercollegiate athletics**

112 Tippin Gymnasium
Telephone: 393-1997
E-mail address: dkatis@clarion.edu
Website: www.clarion.edu/athletics

The focus of the Sports and Recreation Center is the development of students through intercollegiate and recreational sports, and fitness promotion for all students. Recreational programs such as intramurals are also under the supervision of the Sports and Recreation Center.

Intercollegiate Athletics

Intercollegiate athletic competition plays an important role in the lives of Clarion students. Clarion University is affiliated with the National Collegiate Athletic Association (Division II), Pennsylvania State Athletic Conference, and the Eastern Wrestling League.

The present athletics program includes six men and nine women's varsity programs. The men's programs are baseball, basketball, football, golf, swimming and diving, and



Division I wrestling. The women's programs are basketball, cross-country, soccer, softball, swimming and diving, tennis, indoor and outdoor track and field, and volleyball.

Facilities for intercollegiate athletics include Memorial Stadium and the Waldo S. Tippin Gymnasium-Natatorium. The stadium seats approximately 5,000 spectators. The football field is surrounded by an all-weather track. The facility also includes a baseball field, softball field, soccer field, practice football fields, and parking areas. The gymnasium-natatorium, seating approximately 4,000 spectators, is used for both physical education and athletic activities. A weight room, located in the gym, is used for intercollegiate athletics and physical education classes.

Club Sport Program

Douglas Knepp, M.Ed., director of club sports

106 Student Recreation Center
Telephone: 393-1667
E-mail address: dknepp@clarion.edu

The Club Sport Program is administered by the Sports and Recreation Department located in the Student Recreation Center. The designation of club sport is given to recognized student organizations (RSOs) choosing to participate in athletic competition with outside organizations in a non-varsity status. To obtain club sport status, an organization must meet stipulations set forth by the Intramural, Recreation, and Club Sport (IRCS) committee. Club sports operate on a year-to-year basis contingent upon student interest. Examples of club sport programs at Clarion are men and women's rugby, equestrian, ultimate frisbee, roller hockey, men's volleyball, and soccer.

Intramural Programs

**Douglas Knepp, M.Ed., director of intramurals,
recreation, and fitness**

106 Student Recreation Center
Telephone: 393-1667
E-mail address: dknepp@clarion.edu
Website: www.clarion.edu/intramurals

Intramural and recreational programs are provided for students by student activity fees allocated by the Student Senate. Programs are planned and supervised by the Department of Sports and Recreation. Intramural competition is available for more than 50 activities, including flag football, soccer, volleyball, chess, bowling, table tennis, basketball, wrestling, badminton, billiards, swimming, softball, in-line hockey, water basketball, golf, and racquetball. The intramural office is housed in the Student Recreation Center and many of the intramural events are held in the facility. Ongoing fitness counseling is available, as well as instruction on the use of the strength and cardio equipment. The department also offers a fitness component intended to help students develop and maintain a healthy and physically fit body through strength training programs, aerobics, and body fat percentage screening tests.

Student Recreation Center

Lori A. Sabatose, M.A., manager

104 Student Recreation Center

Telephone: 393-1667

E-mail address: lsabatose@clarion.edu

Website: www.clarion.edu/reccenter/

The Student Recreation Center opened in October 1999. The student fee-funded facility houses three multi-purpose courts that may be used for basketball, volleyball, tennis, soccer, floor hockey, or badminton. It also contains a four-lane running/walking track, a 32-by-25 foot climbing wall with four belay stations, a stretching area, and cardiovascular area, and a 4,700 square foot weight room. Equipment includes a variety of steppers, elliptical cross trainers, treadmills, stationary bicycles, and rowing machine. The weight room combines free weights, plate-loaded stations, and variable resistance weight training machines. Outdoor recreation equipment, such as camping gear, bicycles, cross-country skis, and roller blades, may be checked out for a minimal fee. Indoor equipment, such as basketballs, volleyballs, and tennis balls and racquets are available as well. The center also contains men and women's locker/shower rooms, a multi-use room, a meeting room, and office space for the recreation center director and the intramural, recreation, and fitness director. A majority of the programs sponsored by the intramural department are held in the Student Recreation Center. All students enrolled at Clarion Campus are admitted to the facility and have use of all equipment by simply presenting a valid Clarion University ID card.

The Center for Advancement

Carol A. Roth, assistant vice president for advancement & planned giving; center executive director

204 Center for Advancement

Telephone: 393-2572

E-mail address: croth@clarion.edu

Website: www.clarion.edu/foundation

The Center for Advancement operates within the division of Student and University Affairs and is responsible for activities that generate support and advance the general interests of Clarion University. The Center for Advancement consists of the offices of Alumni and Development and the Clarion University Foundation, Inc.

Alumni and Development

Rika C. Beckley, associate vice president for development

200 Center for Advancement

Telephone: 393-2572

E-mail address: rbeckley@clarion.edu

Website: www.clarion.edu/foundation, www.clarion.edu/alumni

The office of alumni relations is the principal liaison between Clarion and its graduates. The office supports alumni programming and events, while maintaining a database of more than 40,000 alumni. The office of Alumni, along with the Alumni Association Board of Directors and student Eagle Ambassadors, offers support to the efforts of the university and the Clarion University Foundation, Inc. in serving alumni, friends, parents, and the university community at large. The office is involved in attracting students, establishing a base of financial support, fostering lifelong affiliations with alumni (beginning with current students), and continuing in outreach programming to all alumni.

The development office is responsible for coordinating all university program requests for financial support from the private sector. Campaigns for support include annual, capital, and planned gifts and other special appeals. Sources of private support include alumni, employees, retirees, parents, students, friends, businesses, corporations, and foundations. All private gifts generated are housed with the Clarion University Foundation, Inc.

Clarion University Foundation, Inc.

Michael R. Keefer, administrative director

220 Center for Advancement

Telephone: 393-2572

E-mail address: mkeefe@clarion.edu

Website: www.clarion.edu/foundation

The Clarion University Foundation, Inc., a Pennsylvania not-for-profit corporation founded in 1969, is charged with promoting the educational purposes of, or at the request of, Clarion University. The organization, further described as a tax-exempt charity by section 501(c)(3) of the Internal Revenue Code, has been designated by the Council of Trustees to receive and manage private sector gifts on behalf of Clarion University.

The Foundation Board of Directors, through its executive director, oversees the management and operation of the organization including distribution of resources, management of assets, student housing operations, and personnel.

University Relations Center

Ronald J. Wilshire, M.S., assistant vice president for student and university relations

Telephone: 393-2334

E-mail address: rwilshire@clarion.edu

Website: www.clarion.edu/news

The center for university relations provides public relations, marketing, a news bureau, sports information, World Wide Web supervision, and printing and graphic services for general advancement of the entire university.

The accomplishments of our students, faculty, and staff are publicized through the center. Any student or student organization with suggestions for news releases should contact University Relations.

Other Student-Related Services

Libraries

Terry S. Latour, Ph.D., dean of university libraries

125 Carlson Library Building

Telephone: 393-2343

E-mail address: tlatour@clarion.edu

Website: www.clarion.edu/library/

Assistant Professors/Librarians: Clemente, Gamaluddin, Glotfelty, Johnson, Martin, Stempeck, Webb

Carlson Library on the Clarion Campus is a state-of-the-art facility. Extensive connectivity to the campus network and the Internet is provided through building-wide wireless and standard data networks. There are 140 computer workstations in four computer laboratories available for student use. The library is home to the university's Center for Academic Excellence and the University Art Gallery. The Department of Library Science, a department in the university's College of Education and Human Services,

has its offices, classrooms, and computer laboratory in the facility.

The mission of the Clarion University Libraries, comprised of the Carlson Library on the Clarion Campus and Suhr Library on the Venango Campus, is to:

- assist university undergraduate and graduate students, faculty, staff, and administration in conveniently locating and accessing the university's information resources and those of other sources;
- develop and provide timely and responsive services, programs, and tools that facilitate translation of information into knowledge and support research, scholarship, teaching, and learning;
- build, select, and preserve, in cooperation with university faculty, a collection of information resources commensurate with the current and anticipated discipline needs of the university's instructional programs and supportive of teaching and learning processes;
- contribute to progress of the university and the profession; and
- participate in addressing the information resource needs of local and rural communities in Pennsylvania.

Carlson and Suhr libraries have combined collections of more than 1.7 million volumes in various formats, including books, microforms, periodicals, and electronic databases. Materials not held by the two libraries may be accessed through interlibrary loan services offered at both libraries or directly online through the library's Webpage. The libraries are committed to providing excellent service to users. Qualified library faculty and staff are available in each of the libraries' public service areas to assist users in locating information, satisfying research needs, and effectively using instructional technologies. Library faculty also provide instruction on general library use and on research resources and strategies which are discipline specific. The libraries' Webpage (www.clarion.edu/library/) provides a gateway to Internet resources including services which provide full-text access to thousands of academic journals.



Music Program

Department of Music,

Jeffrey A. Wardlaw, D.M.A., chair

221 Marwick-Boyd Fine Arts Building

Telephone: 393-2287

E-mail address: wardlaw@clarion.edu

Website: www.artsci.clarion.edu/music

- **Brass Ensemble** offers students the opportunity to study and perform chamber music for brass instruments. Repertoire is varied, with a concentration on early music and music of the 20th century. Membership is by audition.

- **Concert Choir** offers all members of the university community who enjoy and appreciate choral music and singing in a large ensemble the opportunity to sing repertoire from the Renaissance to the 20th century. Audition not required.

- **Jazz Band** performance literature includes representative works for jazz band, with emphasis on recent trends in composition and arranging. Membership is by audition.

- **Madrigal Singers** is a group of approximately 20 students who perform significant works from the choral chamber repertoire and are featured at the annual Madrigal Dinner performances. Membership is by audition.

- **Marching Band** repertoire ranges from classics to contemporary to jazz. The Golden Eagle Marching Band appears at all home football games, headlines regional marching festivals, and leads the annual Autumn Leaf Festival Parade. Audition not required.

- **Percussion Ensemble** offers students the opportunity to study and perform chamber music for percussion instruments. Includes contemporary works, transcriptions of early music, and music of various cultures. Membership is by audition.

- **String Ensemble** provides students the opportunity to perform chamber works for strings. Membership is by audition.

- **Symphonic Band** is an ensemble that performs representative works drawn from traditional and contemporary literature. Audition not required.



- **Symphony Orchestra** brings together string and wind players dedicated to the performance of orchestral literature. Membership is by audition.

- **Wind Ensemble** provides wind and percussion players on campus opportunity to perform significant wind literature from the Renaissance to the 20th century. Membership is by audition.

- **Woodwind Ensemble** offers students the opportunity to perform literature for woodwind instruments. Membership is by audition.



Dramatic Organizations

Department of Theatre,

Marilouise Michel, M.F.A., chair

149 Marwick-Boyd Fine Arts Building

Telephone: 393-2283

Website: www.clarion.edu/academic/theatre

ALPHA PSI OMEGA is a national honorary dramatics fraternity. This organization attempts to further the student's knowledge of and involvement with theatre. The chapter sponsors the Alpha Psi Omega memorial scholarship fund which grants theatre awards to deserving students.

UNIVERSITY THEATRE, the campus dramatic organization, is open to all students interested in gaining experience in performance and technical aspects of theatre. Students are welcome to participate in the four major productions, student-directed plays, and the Summer Drama Workshop.

Speech Organizations

Department of Mass Media Arts, Journalism, and Communication Studies,

Barry McCauliff, M.A., chair

149 Marwick-Boyd Fine Arts Building

Telephone: 393-2284

E-mail address: mccaulif@clarion.edu

Website: www.artsci.clarion.edu/sct

NATIONAL COMMUNICATION ASSOCIATION STUDENT CLUB is open to any student interested in exploring professional opportunities in fields of communication. Members have the opportunity to hold leadership positions on committees and to be involved in a variety of activities. Members may also travel to attend and present at state, regional, and national conferences.



SPEECH AND DEBATE TEAM is open to any student interested in competitive speaking events. Members compete in persuasive, informative, humorous, extemporaneous, and impromptu speaking as well as oral interpretation. Debaters argue various topics and compete in parliamentary and policy debate. Members of the Speech and Debate Team can compete in on-campus events, public debates, and travel to regional and national tournaments hosted by other colleges and universities.

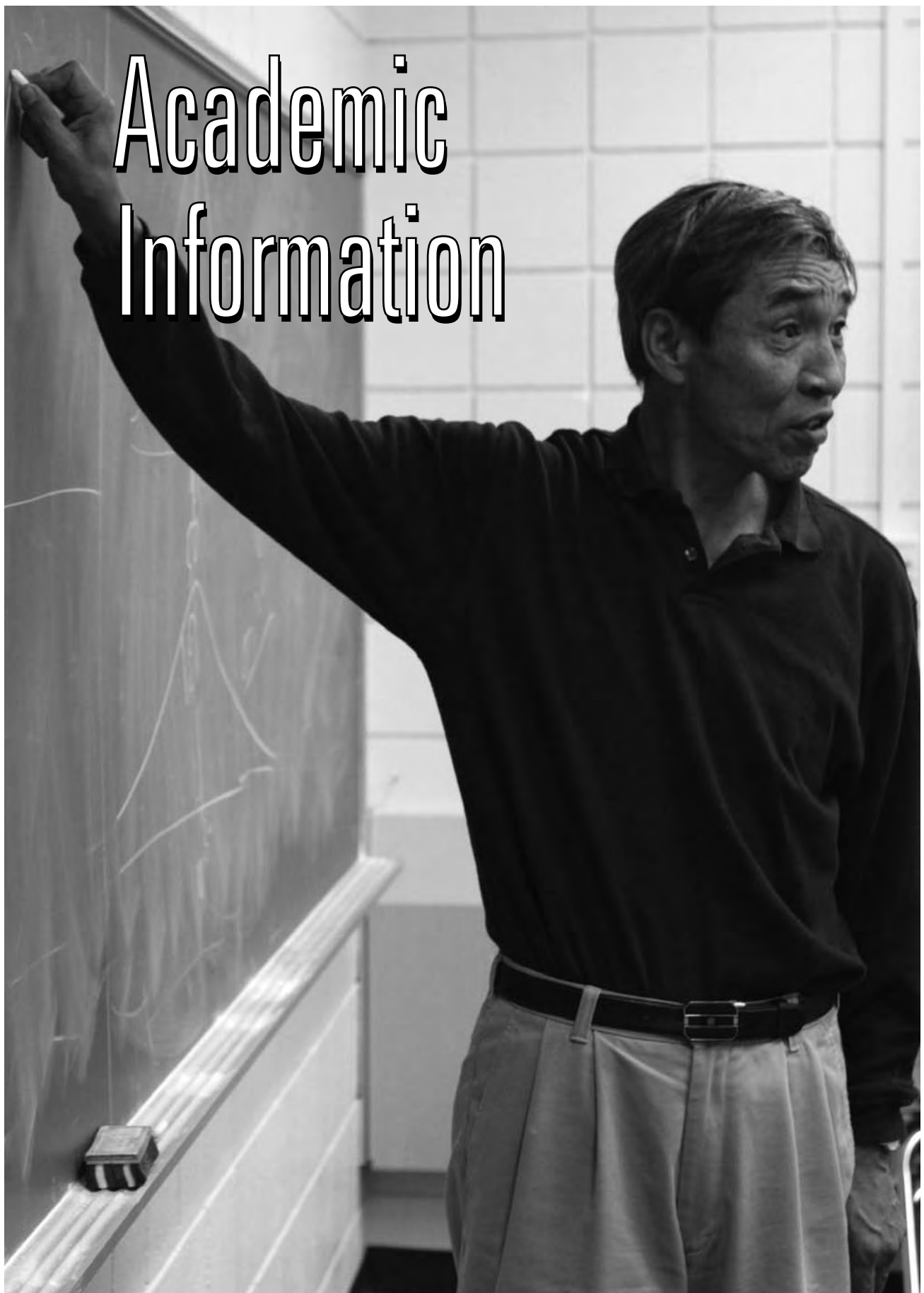


Parking and Automobile Regulations

All provisions of the Vehicle Code of the Commonwealth of Pennsylvania as supplemented by parking regulations issued by the chancellor, Pennsylvania State System of Higher Education, and Clarion University, will be strictly enforced on the Clarion University Campus. Authority for such enforcement rests with the director of Public Safety. People who fail to pay fines will be reported to the district magistrate, and, upon conviction will be subject to penalties provided by law.

All people who possess, maintain, or operate a motor vehicle on campus are required to register the vehicle with the Department of Public Safety. Registering a vehicle does not guarantee a parking space.

1. People qualifying for campus parking privileges will be issued a tag indicating the privilege has been granted and assigned to a specific parking area.
2. Any person who intends to operate a vehicle on campus after the date on which permits are required must register the vehicle within 24 hours with the Office of the Director of Public Safety. Motor vehicles must be registered even when their use is intermittent rather than regular.



Academic Information

Academic Information

Academic Information

Admissions

William Bailey, dean of enrollment management

Telephone: 393-2306

E-mail address: admissions@clarion.edu

Website: www.clarion.edu/admiss/

Admission of Freshmen

In accordance with the principles governing admission adopted by the university, six general requirements have been established for admission to Clarion University:

1. Strength of curriculum
2. High school class rank
3. Grade-point average
4. High school profile
5. SAT or ACT test score
6. Recommendations

Applicants to the university are evaluated on these six areas. Applicants must be graduates of an approved secondary school or hold a General Education Development (GED) high school equivalency diploma issued by the Pennsylvania (or associated state) Department of Education. Home-schooled applicants must be a graduate of a Department of Education-approved home-school association program.

Admission of Freshmen in August 2007, 2008, and 2009

Applicants for admission should read and observe carefully the following procedure:

1. Contact the Admissions Office of the university for an application for admission or access it on the Web at www.clarion.edu/admiss.
2. Send the application form to the university along with an application fee of \$30 payable to Clarion University of Pennsylvania. The fee is not refundable. The high school transcript must be sent directly to the university by the guidance counselor or other school official. A medical form is to be completed after the applicant has been accepted.
3. A deposit of \$100 is required when the accepted applicant makes the decision to attend Clarion. This fee is not refundable but is credited toward the student's first semester bill.
4. Clarion University applicants may ask for a decision as early as July 1 following their junior year in high school. This would require the applicant to have taken the Scholastic Assessment Test (SAT) or the American College Test (ACT) in the junior year.
5. All applicants who intend to major in music education or music with elective studies in business must complete a musical audition and personal interview through the Department of Music.

6. Applicants for the Associate of Science degree in Nursing—please see Specialized Admission Requirements for the Associate Of Science Degree in Nursing on page 210.

Transfer Policy

Clarion University welcomes applications from students who wish to transfer to Clarion from another college or university. Clarion University will accept transfer courses (except remedial/developmental) from regionally accredited two- and four-year institutions (e.g., Middle States Association of Colleges and Schools, North Central Association of Colleges and Schools) that are a grade of C or better.

Transfer credits that are applied toward a specific major must be approved by the appropriate college dean or director and the department chair of the academic area in which the degree is to be granted. When applying transfer credits, all accepted courses will at least be applied as elective hours. Depending on a student's major and the number of credits, and compatibility of these credits with the student's chosen major, a student may complete her/his degree with credits beyond those required for graduation. Please note the following:

1. Students seeking to transfer must be in good academic and social standing at the transferring institution. It is the applicant's responsibility to submit official transcripts and other necessary materials for evaluation.
2. Credits are transferable, but grades and quality points are not.
3. All courses transferred must be recognized in content and quality.
4. Students who wish to challenge a course equivalency can appeal to the dean of their program of study. Students are requested to provide a course syllabus which gives more detail than just a catalog description. The course is then reevaluated by the appropriate academic department.
5. Transfer students must fill out the regular application for admission to the university, have high school and college transcripts sent to the Admissions Office, and pay the \$30 non-refundable application fee.
6. Applicants who hold the Associate of Science or Arts degree from a Pennsylvania community college will be accepted by the university and granted transfer credits as outlined in the Academic Passport Principles (see the Credit Transfer Policy section.)
7. Applicants from Pennsylvania community colleges without the Associate Degree of Science or Arts will be processed in accordance with regular transfer guidelines.
8. A minimum of 45 of the last 64 credits required for graduation must be taken in residence at Clarion (See "Residence Requirements").

- To ensure proper placement of transfer credits taken at another institution, students enrolled at Clarion University are strongly encouraged to request written permission from their college dean to take courses at another institution for transfer back to Clarion. Grades and quality points for courses taken elsewhere do not transfer and cannot be used as repeats for grades previously earned at Clarion.

Credit Transfer Policy

Academic Passport Principles

Clarion University affirms its commitment to maximize access to higher education for all Pennsylvanians through the Academic Passport to the Pennsylvania State System of Higher Education. Community college students who have earned the Associate of Arts (A.A.), the Associate of Science (A.S.), or the Associate of Applied Science (A.A.S) degree in a program containing a minimum of 30 credits of liberal arts courses, or State System university students, who transfer from one State System university to another with a 2.0 minimum cumulative quality-point average (QPA) in all course work and a minimum of 12 credit hours, shall be considered to have an Academic Passport which will allow them to transfer to any PASSHE university.

It is understood that the academic passport does not guarantee admission into specific majors. Some academic programs may have additional requirements such as satisfactory scores on Praxis exams or a higher QPA.

In the acceptance and application of credits for students holding an Academic Passport, the receiving university shall look first to apply as many credits as possible toward the satisfaction of lower-division general education requirements. Next, the receiving university shall look toward applying any appropriate credits to satisfy requirements in the major. Last, credits may be applied to satisfy elective requirements. It is the intent of the passport that credits earned as part of a qualifying degree program at a community college or state system university should be accepted and applied toward completion for the baccalaureate degree.

It is recognized that in certain circumstances, such as a change in major or specialized programs of study, it may not be possible to apply all transfer credits earned toward the four-year degree; however, absent legitimate academic reasons, the intent of this policy is to make full and complete use of credits earned in qualified A.A., A.S., or A.A.S. degree programs. Transfer students shall not be required to repeat or retake courses that they have already successfully completed at another accredited institution.

In accepting the Academic Passport, Clarion University shall follow these principles:

- Clarion University will recognize and honor the Academic Passport by admitting qualified students and shall apply credit toward graduation for all

equivalent college course work completed for the associate's degree.

- Students seeking to transfer to a State System university and who are admissible shall receive an evaluation of credits prior to enrollment and payment of tuition and fees. (Application fees may still be required.)
- Transfer students who meet the conditions of published articulation agreements shall not be required to take a higher number of credits for the baccalaureate degree than indigenous students of the receiving institution.
- Up to a maximum of 45 general education credits and liberal arts course credits shall be used to meet lower division general education requirements, even if the receiving university does not offer the specific course being transferred or has not designated that course appropriate for general education. A course-by-course match shall not be required.
- Students who transfer with 60 or more credits will be entitled to the same rights and privileges accorded State System students with junior status (i.e., scheduling, internships, etc.).

Transfer Credit Appeal

Students who feel the need to appeal a course equivalency on the degree audit may do so by meeting with the dean of their college. Students who appeal an equivalency are asked to provide a course syllabus which provides more detailed information than catalog descriptions. The course is then re-evaluated by the appropriate academic department.

Admission with Advanced Standing

Advanced Placement—Credit by Examination

1. The College-Level Examination Program

A maximum of 60 credits may be earned through the College-Level Examination Program (CLEP). No more than 30 of the 60 credits may be earned after admission. These examinations, administered by the College Entrance Examination Board, may be taken at the Venango Campus of Clarion University on third Fridays. They are designed for adult learners and non-traditional students who have gained college-level knowledge through prior education or training. The College-Level Examination Program includes five general examinations and approximately 36 subject examinations, which, if successfully passed, will earn the student three credits per examination. Listed below are the general and subject examinations, minimum acceptable scores, and credits available to earn:

General Exams	Course Equivalent	Min. Scores	Cr
English Composition	ENG 111	500	3
Humanities	HUM 120	500	3
Mathematics	MATH 112	500	3
Natural Sciences	PHSC 111	500	3
Social Science and History	Social Science Elective	500	3

Subject Exams	Equivalent	Scores	Cr
American Government	PS 211	50	3
American History I: Early Colonization of 1877	HIST 120	50	3
American History II: 1865 to Present	HIST 121	50	3
Educational Psychology	ED 122	50	3
General Psychology	PSY 211	50	3
Human Growth and Development	PSY 331	50	3
Introductory Macroeconomics	ECON 211	50	3
Introductory Microeconomics	ECON 212	50	3
Introductory Sociology	SOC 211	50	3
Western Civilization I: Ancient and Near East to 1648	HIST 111	50	3
Western Civilization II: 1648 to Present	HIST 113	50	3
College French Level 1	FR 151	50	3
College French Level 2	FR 152	50	3
College German Level 1	GER 151	50	3
College German Level 2	GER 152	50	3
College Spanish Level 1	SPAN 151	50	3
College Spanish Level 2	SPAN 152	50	3
American Literature	ENG 225	50	3
Analysis and Interpretation of Literature	ENG 130	50	3
College Composition	ENG 111	50	3
English Literature	ENG 221	50	3
	ENG 222		3
Calculus with Elementary Functions	MATH 232	50	4
College Algebra	MATH 110	50	3
College Algebra—Trigonometry	MATH 171	50	4
General Biology	BIOL 111	50	4
General Chemistry	CHEM 153	50	3
	CHEM 154	50	3
Information Systems and Computer Applications	CIS 110	50	3
Introductory Accounting	ACTG 251	50	3
Introductory Business Law	BSAD 240	50	3
Introduction to Management	MGMT 120	50	3
Principles of Marketing	MKTG 160	50	3
Ethics in America	PHIL 212	50	3
Introduction to World Religions	PHIL 215	50	3
Introduction to Modern Middle East	HIST 2XX	50	3
Precalculus	MATH 171	50	4
Here's to Your Health	HPE 2XX	50	3

For additional information and a CLEP registration form, contact: CLEP Test Administrator, Clarion University–Venango Campus, 1801 West First Street, Oil City, PA 16301. To have CLEP scores evaluated for credit, submit an official transcript of scores to: Dean of Enrollment Management, Clarion University of Pennsylvania, 840 Wood Street, Clarion, PA 16214-1232.

2. Advanced Placement Program and Credit by Examination

Students also may earn credit and advanced standing through the Advanced Placement Program of the College Entrance Examination Board. The program is designed for high school students who expect to enter college and who have participated in one or more of the advanced classes while in high school. There are 14 subject areas in the program, and any high school student who earns a

score of three or better in a subject area will be granted at least three credits. The National Advanced Placement Examinations are given in May of each year.

3. Transfer of Credits Earned by Examination

For transfer students, credits granted by way of CLEP or Advanced Placement Examinations at other accredited institutions will be accepted if the minimum scores on such examinations meet the minimum standards of Clarion University.

Advanced Placement Examination	Advanced Placement Grade Req.	Number Credits Awarded	Course Typically Waived
American History	4 or 5	6	HIST 120 and 121
American History	3	3	HIST 120 or 121
Art History	4 or 5	6	ART 211 and 212
Art Studio—Drawing	4 or 5	3	ART 121
Art 2-D Design	4 or 5	3	ART 125
Art 3-D Design	4 or 5	3	ART 126
Biology	5	8	BIOL 155, 156, 165, 166
Biology	4	4	BIOL 155, 156 or 165, 166
Biology	3	3	A free elective
Calculus AB	3 or 4	3	MATH 232
Calculus AB	5	4	MATH 260
Calculus BC	3	4	MATH 260
Calculus BC	4	4	MATH 270
Calculus BC	5	8	MATH 270 and 271
Chemistry	3, 4, or 5	6	CHEM 153 and 154
Chemistry	Completed AP Lab Reports	2	CHEM 163 and 164
Comparative Government Politics	3, 4, or 5	3	PS 210
Computer Science A	3, 4, or 5	3	CIS 163
Computer Science AB	3, 4, or 5	3	CIS 163 and 244
English Language and Composition	3, 4 or 5	3	ENG 200
English Literature and Composition	3, 4 or 5	3	ENG 130
Environmental Science	3, 4, or 5	3	ENVR 275
European History	4 or 5	6	HIST 112 and 113
European History	3	3	HIST 112 or 113
French—Language	5	12	FR 151, 152, 251, 252
French—Language	4	9	FR 151, 152, 251
French—Language	3	6	FR 151 and 152
German—Language	5	12	GER 151, 152, 251, 252
German—Language	4	9	GER 151, 152, 251
German—Language	3	6	GER 151 and 152
Human Geography	3, 4, or 5	3	GEOG 100
Macroeconomics	3, 4, or 5	3	ECON 211
Microeconomics	3, 4, or 5	3	ECON 212
Music—Theory	3, 4, or 5	2	MUS 126
Physics B	4 or 5	8	PH 251 and 252
Physics C—Mechanics	4 or 5	3	PH 258
Physics C—Electricity/Magnetism	4 or 5	3	PH 259
Psychology	3, 4, or 5	3	PSY 211
Spanish—Language	5	12	SPAN 151, 152, 251, 252
Spanish—Language	4	9	SPAN 151, 152, 251
Spanish—Language	3	6	SPAN 151 and 152
Statistics	3, 4, or 5	3	MATH 221
Studio Art	3, 4, or 5	3	ART 1XX
U.S. Government and Policies	3, 4, or 5	3	PS 211
World History	4 or 5	6	HIST 112 and 113
World History	3	3	HIST 112 or 113

4. Proficiency Examinations

Course credits, not to exceed 38 semester hours, also may be earned by proficiency examination for advanced college work administered by the departments in which the particular proficiency is taught. Enrolled, degree-seeking students who appear to possess a proficiency equal to or greater than that required in a particular

Academic Information

course may make application for such an examination in the Office of the Registrar; the chair of the subject area concerned will determine the validity of the application. Minimum qualifications for proficiency examination applications are as follows: first-semester freshmen must have scored 550 or above in the verbal on the SAT; students other than first semester freshmen must have a QPA of 2.50 or above; and in no case may a student earn credit for a course more than once for any given subject. Proficiency exams are not available to students who are otherwise not enrolled at the university during the semester in which the exam is to be taken. Proficiency exams may not be used to repeat courses in which letter grades have previously been awarded.

5. Credit for Life Experience

Clarion University may grant credit for life experience based upon careful evaluation of such experience. For information, students may contact the dean of the college in which they are enrolled.

General Certificate of Education: Advanced Level

Clarion University grants course credits, whenever possible, in subjects in which an A-level pass has been earned. Course equivalencies will be determined by the appropriate college dean based upon information provided by the student.

International Students

Clarion University is authorized under federal law to enroll nonimmigrant students. Clarion University welcomes applications from students from other countries. If you are not a U.S. citizen or are not a resident alien (with a green card) you will apply to Clarion as an international student.

For international students to be considered for admission they are required to submit the following information:

1. The International Undergraduate Application.
2. Official or certified copies of all academic records with an official seal of the school must be provided from secondary school, college, university, and professional institutions, including all courses taken, grades (plus grading scale), graduation date(s), and copies of diplomas, degrees, or other certificates received. For post-secondary work to be evaluated for transfer credit, please provide a course description or syllabus for each course. Submit both official translated and untranslated records.
3. Applicants from countries where English is not the official language are required to submit official results for the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS). Applicants from countries where English is the principal language may choose to submit official SAT or ACT scores in lieu of the TOEFL or IELTS.

Admission Guidelines

Basic requirements for admission include a minimum TOEFL score of 500, if it is paper-based, or a score of 173, if it is computer-based, or a satisfactory SAT/ACT score, an IELTS score of 6.0, or a score of 61 if Internet based.

Students who have graduated from a high school (or equivalent) where the language of instruction is not English will be exempted from any general foreign language requirement at Clarion University. Academic credit and/or life experience credit will only be granted for knowledge of one's native language in cases when specific courses or examinations offered at Clarion University are successfully completed.

Non-Degree Admissions

Students who wish to enroll as a non-degree seeking student may enroll for up to 12 credit hours as a Quick Admit. Quick Admit forms are available in the Admissions Office. Note: state and federal financial aid is not available to quick-admitted students, because they are non-degree.

After completing coursework as a quick-admitted student, if a student chooses to apply for "regular" admission (in a degree program), they may do so during the semester in which they will complete no more than 12 credit hours. Applying for "regular" admission includes a non-refundable application fee, high school transcripts, and college transcripts, if applicable.

Students who have not been approved for degree candidacy after the completion of 12 credit hours of part-time study will not be permitted to continue at the university.

Early Admissions Programs

L.E.A.P. Leaders' Early Admission Program

for high school sophomores, juniors, and seniors interested in attending the Clarion Campus.

Objectives

The Clarion University early admission program is designed to admit selected high school students on a part-time or full-time basis for summer, fall and/or spring. Objectives are as follows:

1. To provide able high school students with an opportunity for course work of a greater scope and depth than is offered by their high school courses.
2. To present selected students with an opportunity to experience college work prior to graduation from high school.

Admission Criteria

The following criteria determine admission of high school students to L.E.A.P at Clarion University:

1. Completion of the freshman year in high school.
2. Completion of a college entrance examination. The student may take either the Scholastic Aptitude Test (SAT) or the American College Test (ACT). Students meeting class rank and grade-point average requirements may complete and submit SAT/ACT scores in the first semester of university enrollment.

3. Completion of an undergraduate application to Clarion University specifying part-time or full-time enrollment and pay a \$30 application fee.
4. Recommendation to the director of admissions by the student's guidance counselor and high school principal (a joint letter is acceptable). These letters should address motivation, interest, academic ability, and social maturity of the applicant.
5. Provide transcripts that show enrollment in the academic or college preparatory program in high school while achieving a minimum of two of the following:
 - 3.25 cumulative QPA (or 87 percent).
 - Top 20 percent of the class.
 - SAT of 1050 or above.
 - ACT of 23 or above.
6. Written parental consent.
7. The director of admissions may arrange for an interview with the applicant and parents. The final decision rests with the director of admissions.

Credits

1. All students that are accepted and enrolled will receive full course credits and are subject to the same rules, regulations and benefits as any other student at Clarion University.
2. Students may enroll in traditional on-campus classes or Web-based courses.

Please direct L.E.A.P. application materials to: Clarion University LEAP Program, Office of Admissions, 840 Wood Street, Clarion, PA 16214-1232.

Jump Start Education Program

Clarion University–Venango Campus

Clarion University–Venango Campus designed the Jump Start program to offer qualified 10th, 11th, and 12th grade students an opportunity to begin their higher education by earning college credits prior to graduating from high school. Students in the Jump Start program are eligible to enroll in day or evening classes at Venango Campus. They may also take Web-based courses. Classes completed as a Jump Start student count toward a degree program whether the student continues at Clarion University after high school graduation or transfers to another college or university.

Objectives

The Clarion University–Venango Campus early admission program is designed to admit selected high school and home-schooled students on a part-time or full-time basis for summer, fall and/or spring. The program's goals are:

- To provide academically prepared high school students with an opportunity for course work of a greater scope and depth than is offered by their high school courses.
- To present selected students with an opportunity to experience college work prior to graduation from high school.
- To earn college credits while in high school that can be used toward a Clarion University degree or be transferred to other colleges and universities. See page 199 for requirements and contact information.

New Student Orientation

All new students are expected to attend New Student Orientation prior to their matriculation. New Student Orientation sessions are conducted throughout the year, with sessions generally offered in the spring and summer. Family members and guests are encouraged to attend with their student.

The primary objectives of New Student Orientation are to help entering students make the transition from their previous environment to Clarion University and to ensure that students and parents complete critical tasks and receive information necessary for a successful entry into college. In order to facilitate this adjustment and allow the students to pursue their education in the best possible manner, the curricular and co-curricular aspects of university life are explored with students and their family members/guests in large and small groups. Students and family members/guests meet with faculty members and students receive academic advisement as they register for classes.

Registration forms and instructions for New Student Orientation program are mailed to all new students.

General Information

University Advising Services

Trudi Tedjeske, faculty coordinator

Academic Advising

Telephone: 393-1879

E-mail address: advising@clarion.edu or ttedjeske@clarion.edu

Website: www.clarion.edu/advising

University Advising Services Center serves as the primary source for all undecided and liberal studies academic advising. The office provides drop-in academic advising to all university students. Advising Services also serves as a resource for all faculty for professional development and answers to advising questions.

Purpose

To assist students in their academic growth and development; promote advisor-advisee relationships characterized by trust, mutual respect, and openness; and establish a climate of purposeful learning which maximizes student growth and minimizes student withdrawal.

Advisor/Advisee Roles and Responsibilities

Advisee should:

1. keep in touch with advisor
2. make and keep appointments or call if changing an appointment
3. come with specific questions in mind
4. ask about other sources of information,
5. be open concerning academic work, study habits, academic progress, etc.
6. build a class schedule which meets necessary academic requirements and is free of time conflicts
7. make decisions concerning careers, choice of majors, and selection of courses

Advisor should:

1. post office hours
2. keep appointments or call if it is necessary to change or cancel an appointment
3. provide accurate and specific information
4. suggest other sources of information
5. listen and help you solve problems
6. check schedule for appropriate selection of courses
7. suggest options concerning careers, choice of majors, and selection of courses

Undergraduate Degree Programs

Clarion University offers combined academic and professional curricula leading to the undergraduate degrees of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science, Bachelor of Science in Business Administration, and Bachelor of Science in Education, as well as certification for teaching in the public elementary, middle, and secondary schools of the Commonwealth of Pennsylvania.

Additionally, it offers associate degree programs and a Bachelor of Science in Nursing at its Venango Campus in Oil City. See Venango Campus, page 199.

Program Listing

Key:	*	Concentration only
	**	Certification only
	***	Minor program
	#	Post-Master's Certificate of Advanced Studies
	†	Graduate-level Certificate

Accounting (page 150).....	B.S.B.A.
Allied Health (page 216).....	A.S.
Anthropology (page 62).....	B.A., ***
Administration Technology (page 203)	A.A.S.
Art (page 64).....	B.A., B.F.A.
2-D Studio	***
3-D Studio	***
Art History	***
Ceramics.....	*
Drawing.....	*
Dual Drawing	*
Fiber/Fabric.....	*
Graphic Arts	*
Painting	*
Printmaking.....	*
Sculpture	*
Arts and Sciences (page 204).....	A.A.
Athletic Coaching Program (page 180)	** , ***
Biology (page 69)	B.A., B.S., M.S.
Cellular/Organismal Biology	***
Ecology and Evolutionary Biology	* , ***
Biological Sciences (graduate level) (see <i>Graduate Catalog</i>)	*

Environmental Science (graduate level) (see <i>Graduate Catalog</i>).....	*
Business Administration (pages 159, 205).....	A.S., ***
General Business Management (page 205).....	*
Business Administration (see <i>Graduate Catalog</i>).....	M.B.A.
Chemistry (page 78).....	B.S., ***
Chemistry/Biochemistry	*
Chemistry/Business.....	*
Chemistry/Engineering Co-op (page 84)	*
Computer Science (page 82).....	B.S., ***
Criminal Justice (page 206)	A.S.
Early Childhood Education (page 172, 204).....	A.S., B.S.Ed.
Economics (page 85).....	B.A.
Economics, Business (page 152)	B.S.B.A., ***
Education (see <i>Graduate Catalog</i>)	M.Ed.
Coaching (see <i>Graduate Catalog</i>)	*
Curriculum and Instruction (see <i>Graduate Catalog</i>)	*
Early Childhood (see <i>Graduate Catalog</i>)	*
English (see <i>Graduate Catalog</i>).....	*
History (see <i>Graduate Catalog</i>).....	*
Instr. Technology Specialist (see <i>Graduate Catalog</i>)	**
Literacy (see <i>Graduate Catalog</i>)	*
Mathematics (see <i>Graduate Catalog</i>)	*
Principalship Preparation (see <i>Graduate Catalog</i>)	*
Reading Specialist (see <i>Graduate Catalog</i>).....	*
Science (see <i>Graduate Catalog</i>)	*
Science Education (see <i>Graduate Catalog</i>)	*
Technology (see <i>Graduate Catalog</i>).....	*
World Languages (see <i>Graduate Catalog</i>).....	*
Elementary Education (page 172).....	B.S.Ed.
Early Childhood Education.....	**
Elementary Education	**
Elementary Health.....	*
Library Science.....	* , **
Engineering Co-op Program (page 84)	*
English (page 86).....	B.A.
Creative Writing	***
Literature	***
Professional Writing and Rhetoric.....	***
Writing	***
English (see <i>Graduate Catalog</i>)	M.A.
Environmental Biology (page 69).....	B.S.
Freshwater Ecology	*
Environment and Society	**
Marine Ecology	*
Terrestrial Ecology	*
Environmental Education (page 172)	*
Environmental Geoscience (page 92)	B.S.
Film Studies (page 116)	**
Finance (page 155).....	B.S.B.A.
Corporate Finance (effective Spring 2008).....	*
Personal Financial Planning.....	*
French (page 116)	B.A., ***
French Education (page 173).....	B.S.Ed., **
Geography (page 94).....	**
Geographic Information Science.....	**
Geology (page 92).....	B.S.
German (page 116).....	**

Gerontology (page 97).....	***	Nursing-Family Nurse Practitioner (graduate level program).....	** , †
History (page 98).....	B.A., ***	Nursing-Nurse Educator (graduate level program).....	** , †
Ancient Mediterranean Studies.....	***	Philosophy (page 127).....	B.A., ***
Black Studies.....	***	Physics (page 129).....	B.S., ***
Industrial Mathematics (page 110).....	B.S.	Astrophysics.....	*
Industrial Relations (page 159).....	B.S.B.A.	Nanotechnology.....	***
Industrial Technology (page 203).....	A.A.S.	Physics/Engineering Co-op (page 84).....	*
Information Systems (page 82).....	B.S., ***	Sustainable Science and Policy.....	***
International Business (page 153).....	B.S.B.A., ***	Political Science (page 132).....	B.A., ***
Latin American and Caribbean Studies (page 62).....	***	Principalship Preparation (see <i>Graduate Catalog</i>).....	**
Leadership-Interdisciplinary track (effective Spring 2008).....	***	post-master’s certification from Slippery Rock University	
Leadership-Military Science (page 114).....	***	Psychology (page 135).....	B.A., B.S., ***
Legal Business Studies (page 205).....	A.S.	Radiologic Sciences (page 216).....	B.S.
Legal Assistant.....	*	Real Estate (page 155).....	B.S.B.A.
Liberal Studies (pages 101).....	B.S.	General Real Estate.....	*
Athletic Coaching.....	*	Legal Business Studies.....	*
Athletic Training.....	*	Rehabilitative Sciences (page 189).....	B.S.
Education.....	*	Developmentally Disabled.....	*
Education/Library Science.....	*	Gerontology.....	*
English.....	*	Substance Abuse.....	*
Geography and Sustainable Planning.....	*	Rehabilitative Sciences (see <i>Graduate Catalog</i>).....	M.S.
Health Promotion/Wellness (effective Spring 2008).....	*	Rehabilitative Services (page 205).....	A.S.
Library Science.....	*	Respiratory Care (page 217).....	A.S.
Sport Management.....	*	Secondary Education, Biology (page 173).....	B.S.Ed., **
Writing.....	*	Secondary Education, Chemistry (page 173).....	B.S.Ed., **
Library Science (page 185).....	B.S.Ed., #	Secondary Education, Earth and Space Science (page 173).....	B.S.Ed., **
Library Science (see <i>Graduate Catalog</i>).....	M.S.L.S.	Secondary Education, English (page 173).....	B.S.Ed., **
Library Science K-12 Certification.....	**	Secondary Education, General Sciences (page 173)....	B.S.Ed., **
Management (page 159).....	B.S.B.A.	Secondary Education, Mathematics (page 173).....	B.S.Ed., **
Marketing (page 162).....	B.S.B.A.	Secondary Education, Physics (page 173).....	B.S.Ed., **
Mass Media Arts and Journalism (See <i>Graduate Catalog</i>)...M.S.		Secondary Education, Social Studies (page 173).....	B.S.Ed., **
Mass Media Arts, Journalism, and Communication Studies (page 103).....	B.S.	Sociology (page 139).....	B.A., ***
Advertising.....	*	Social Work.....	***
Broadcasting.....	*	Sociology/Psychology (page 141).....	B.A.
Communication Studies.....	*	Spanish (page 116).....	B.A., ***
Corporate Communication.....	*	Spanish Education (page 173).....	B.S.Ed., **
Film.....	*	Special Education (see <i>Graduate Catalog</i>).....	M.S.
Journalism.....	*	Special Education (page 189).....	B.S.Ed., **
Public Relations.....	*	Special Education/Rehabilitative Sciences (page 189)....	B.S.Ed.
Mathematics (page 110).....	B.S., ***	Speech Language Pathology (see <i>Graduate Catalog</i>).....	M.S.
Mathematics/Engineering Co-op (page 110).....	*	Speech Language Pathology (see <i>Graduate Catalog</i>).....	**
Mathematics/Statistics.....	***	Speech Pathology and Audiology (page 194).....	B.S., ***
Medical Technology (page 70).....	B.S.	Sports Management (page 181).....	***
Molecular Biology/Biotechnology (page 69).....	B.S.	Theatre (page 141).....	B.A., B.F.A.
Biotechnology.....	***	Acting.....	* , ***
Music (page 122).....	***	Dance.....	***
Music Education (page 187).....	B.S.Ed.	Musical Theatre.....	*
Music Education.....	**	Technical.....	***
Nursing (page 210).....	A.S.N., B.S.N.	Technical Design/Direction.....	*
Public School Nursing (page 212).....	**	Women’s Studies (page 145).....	***
Nursing (see <i>Graduate Catalog</i>).....	M.S.N.		

Academic Opportunities

ROTC-Military Science

In partnership with the Military Science Department at Indiana University of Pennsylvania (IUP), Clarion University offers qualified students the opportunity to earn a commission as an officer in the United States Army. The Reserve Officers' Training Corps (ROTC) Program provides leadership training that students can apply throughout their careers regardless of major.

At Clarion University, your path to leadership excellence starts right here. Our on-campus program offers specialized training through both course and co-curricular activities. Whether you participate for a semester, two years, or a full four years, you'll learn leadership and management skills. Participation is open to all students, and there are a variety of opportunities for scholarships and financial aid.

Honors Program

Hallie E. Savage, Ph.D., director

117 Becht Hall

Telephone: 393-2585

E-mail address: hsavage@clarion.edu

Website: www.clarion.edu/art-sci/honors

Clarion University's Honors Program is a community of academically talented students committed to seeking excellence in all areas of higher education. The curriculum promotes development of life skills targeted for successful career outcomes. The Honors experience extends beyond the walls of the traditional classroom. Students may spend time with archaeologists in Italy, with anthropologists at a primate center, with large corporate firms and in small businesses, and with molecular biologists in laboratories. Courses have included contemporary music, the art of problem solving, and the ethical implications of research. Co-curricular themes prepare our Honors Program students to assume leadership roles. The Honors Program is for those individuals who desire professional success, demand academic excellence, and expect to create the future.

Honors courses satisfy general educational requirements. Courses are taught as special topics and faculty instructors are recruited for their scholarly expertise. Students take a 6-credit linked English and speech class and a three-credit humanities course in the freshman year. In the sophomore year, students take a three-credit mathematics or science

course and a three-credit social sciences course. As juniors, students take a seminar that culminates in a project prospectus for the capstone experience. Honors 450 is the Senior Project delivered in a university-wide presentation. The following program standards must be maintained at the end of each academic year:

- Freshman Year 3.0 QPA
9 program credits
- Sophomore Year 3.25 QPA
15 program credits
- Junior Year 3.4 QPA
18 program credits
- Senior Year 3.4 QPA
18-plus program credits

Honors students major in every department within the university and receive pre-professional advisement. All course substitutions or changes in academic programs must be approved by the Honors Program director. Successful completion of the program is recognized at Commencement and is also noted on the official transcript. Students are encouraged to participate in internships and study-abroad programs. Honors students are eligible for academic scholarships.

Each year a maximum of 50 freshmen are selected for the Honors Program. To be considered for Honors Program admission, entering freshman must have a minimum SAT score of 1150 or equivalent ACT scores, achieve a minimum grade-point average of 3.65 or 92 percent, successfully complete an interview, and provide a short essay. Undergraduate students already enrolled or transfer students may also apply. If a student should fail to maintain the required QPA and course progression, the student will be placed on probation and have one semester to meet the requirements. A student who fails to achieve the required QPA and course progression by the end of the probationary semester will not be allowed to continue in the Honors Program or to continue to receive an Honors scholarship.

Program suspension may be appealed. A letter of appeal must be submitted to the Honors Program director within two weeks of the date in the letter of notification of termination in the program. The appeal will be reviewed by the Honors Council and action taken before the beginning of the following semester. The credit/no record option will not be available for courses carrying Honors credit.

Honors Courses

HON 128/129: *MODES OF DISCOURSE*

6 s.h.

Interdisciplinary course integrates the student's production of both written and spoken discourse. This course is an alternative method of teaching communication, and draws upon the skills of instructors from English and Speech Communication. Equivalent of ENG 111 and CMST 113. Required for all Honors Program students.

HON 130: *SPECIAL TOPICS: HUMANITIES*

3 s.h.

Interdisciplinary course in the humanities. Focuses on human values, beliefs, and accomplishments as expressed in art, music, literature, philosophy, and religion. Required of students enrolled in the Honors Program.

HON 230: SPECIAL TOPICS: SCIENCE/MATHEMATICS**3 s.h.**

Interdisciplinary course in the natural sciences and/or mathematics. Focuses on basic principles in the natural sciences and/or mathematics and their development within the context of human civilization. Required of students in the Honors Program.

HON 240: SPECIAL TOPICS: SOCIAL SCIENCES**3 s.h.**

Interdisciplinary course in the social sciences. Focuses on human civilization from the perspective of the social scientist. Required of students enrolled in the Honors Program.

HON 350: JUNIOR SEMINAR**3 s.h.**

Interdisciplinary seminar foundational to the development of the Senior Project and career planning. It is crucial in bridging the Honors sequence with the final project as it develops presentation and portfolio skills while requiring students to develop the prospectus for their senior project and linking with a faculty mentor. This course and/or study abroad required of all students in the Honors Program.

HON 450: SENIOR PROJECT**1-3 s.h.**

A scholarly project of an interdisciplinary nature including the student's major area of study. A public presentation of the outcome of the project is required. Required of students enrolled in the Honors Program.



Study Abroad—International Education

Clarion University, as part of its mission to serve the educational needs of the citizens of the Commonwealth of Pennsylvania, is dedicated to strengthening the international and intercultural dimensions of its academic programs and activities. The leadership of the university recognizes the interdependence of nations and peoples throughout the world.

Clarion University is committed to providing a variety of study abroad and exchange programs. Study abroad programs offer students the opportunity to maintain enrollment at Clarion while attending an international university. Programs may be offered in both foreign and English language settings and may vary in duration.

The Office of International Programs (OIP) coordinates and administers international-related activities on campus, including the International Student Services Office, study abroad programs, and exchange programs for faculty and students.

Summer Session

The Summer Session is maintained for the benefit of regular Clarion University students, incoming freshmen, students in good academic standing at other institutions, graduates of approved colleges and universities, teachers who wish to meet certification requirements, certain high

school students, and any adults who wish to attend classes. In addition to the regular undergraduate and graduate course offerings, there are also workshops and special programs.

Clarion University and the surrounding area offer numerous opportunities for summer activities. There are normally a pre-session and two consecutive five-week sessions. Interested students should contact the Office of Academic Affairs for details.

Winter Intersession

The Winter Intersession was established to enable students to obtain additional credits outside the regular semesters. Only on-line classes are offered and students may take no more than one class during the Winter Intersession.

Classes begin the Monday after the last day of the Fall Term Examinations and run for just over three weeks. The session follows the standard add/drop refund period. Only limited library, student services, and office services (registrar, bursar, financial aid, etc.) are provided. Office services are unavailable for one week in the middle of the term. The Financial Aid Office will not be reviewing progress after the Winter Intersession, so a passing grade can help a student regain aid, but not lose aid.

Veterans' Affairs

Clarion offers the regular degree curricula to veterans and children of deceased veterans.

Credit for educational experience in the armed services is allowed on the basis of the recommendations of the American Council on Education.

The university grants a maximum of four credits in health and physical education for active military service of four months or more with honorable discharge or continued reserve status. Credit is normally given for HPE 111 (two credits), and two HPE activity courses of one credit each. To ensure credit is granted, veterans should bring an honorable discharge document (Form DD214) to the Office of the Registrar, 122 Carrier.

Visiting Student Program

The Visiting Student Program provides students in good academic standing who have completed a minimum of 27 credits in residence the opportunity to take advantage of courses, programs, or experiences offered at the other 13 institutions of the Pennsylvania State System of Higher Education.

These experiences require advance approval of the student's department chairperson and college dean and must not also be offered at Clarion University.

Applications and additional information are available at the Office of the Registrar, 122 Carrier Administration.

The Writing Center

Kathleen A. Welsch, Ph.D., director

Office: 112A Davis Hall

E-mail address: kwelsch@clarion.edu or wcdirector@clarion.edu

Website: <http://www.clarion.edu/academic/wc/>

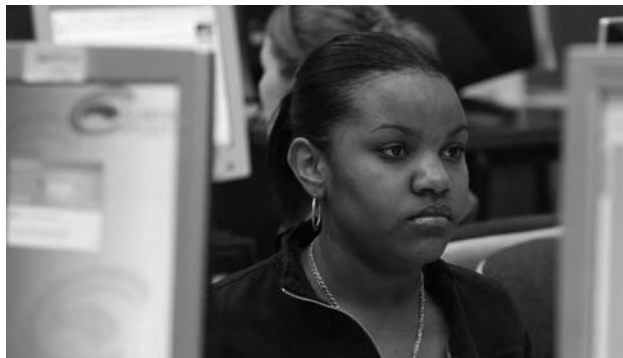
The Writing Center supports all students in their efforts to become better writers and provides assistance with writing assignments in all subject areas.

The Writing Center is not a proofreading or editing service. It is a support service for any writer who values feedback as part of the learning/writing process.

Consultants at The Writing Center assist students at whatever stage of writing they need assistance. Writing consultants aim to motivate rather than control a writer by asking questions, offering feedback, and encouraging writers to talk through the thinking and planning process.

Writing consultants assist writers at the level of the writer's ability; therefore, written work reflects each writer's ability as well as personal style. In this way, the center assures faculty that writing turned in for evaluation is the student's work, and not that of a writing consultant.

Writing consultants are graduate and undergraduate students who undergo a careful screening process and participate in weekly training sessions. Writing consultants who meet training and tutoring hour requirements receive College Reading and Learning Tutor Certification.



Department for Academic Enrichment

Chris Hearst, M.S., chair

132 Ralston Hall

Telephone: 393-2249

E-mail address: hearst@clarion.edu

Website: www.clarion.edu/departments/acad/

Office: 132 Ralston Hall

The university is committed to the academic growth and development of all students. In order to ensure these goals are met, the university established the Department for Academic Enrichment which incorporates student and faculty development, academic advisement, and academic support for students. There are six program units within the Department for Academic Enrichment.

Center for Academic Enrichment

Office: 131 Ralston Hall

Telephone: 393-2249

E-mail address: hearst@clarion.edu

Website: www.clarion.edu/admin/academicssupport/

The Center for Academic Enrichment provides services to students who may encounter some form of difficulty with their courses and/or need instruction in basic skills development. The Center for Academic Enrichment has two components, the Tutoring Center and the Learning Skills Lab. The two components offer students a comprehensive approach to the development of skills necessary at the collegiate level to ensure academic success. All services are free of charge. Services are available by either appointment and/or by walk-in.

Content tutoring is offered for most lower-level subject areas providing students with the understanding of basic concepts, ideas, and mechanical processes. Tutoring sessions give students the opportunity to secure in-depth clarification and to identify and apply specific reading and study skills required in their academic programs. Most tutoring sessions are one-to-one or small group instruction.

Learning skills instruction provides students with instruction in basic skill development to become independent learners. The Learning Skills Lab staff instructs students in practical study techniques. Students' reading and study skills are diagnosed to identify individual strengths and weaknesses. Once skill areas are diagnosed, a planned program of instruction is implemented using a variety of instructional aids as well as one-to-one instruction. Students can receive academic assistance in the following areas: time management, note taking, reading comprehension, test taking, vocabulary development, critical thinking skills, and library research.



Academic Skills Courses

AE/MATH 010: PREPARATION FOR COLLEGE MATHEMATICS 3 s.h.

Covers basic arithmetic and geometric principles necessary for the subsequent study of introductory algebra and other more advanced courses requiring a basic mathematics competency. Emphasizes decreasing mathematics anxiety, developing mathematics text-reading abilities, including the study of vocabulary unique to the mathematics discipline, developing estimation skills, interpreting data, mental mathematics, and critical thinking. Major learning modalities are written response, calculator use and experimentation, analysis activities, and problem-solving.

AE 100: COLLEGE READING/STUDY SKILLS 3 s.h.

Develops reading, writing, research, and study skills needed at the college level. Intended for underclass students only. The reading/study skills required at the college level. Students learn to organize study plans. Emphasizes application of these skills to courses students are studying. No prerequisite. Each semester.

AE 101-102: EXPLORATION 1 AND 2 .5 s.h.

A co-curricular offering for first-year students, a cooperative program of student affairs and academic affairs. Intended to acquaint students with many aspects and resources of Clarion University, students will explore and understand themselves interacting in a higher-education environment, identify and utilize campus resources, and develop strategies to facilitate learning. The intent is to forge positive active relationships among students, faculty, and staff; help students be informed self-advocates, and engage in co-curricular and extra-curricular activities, which will enhance personal growth and education. 0.5 credit each semester for a total of 1 credit.

AE 110: THE STUDENT IN THE UNIVERSITY 3 s.h.

Enables freshman students to (1) explore and understand themselves as developing adults interacting in a higher education environment; (2) identify and/or utilize campus and community resources that will enhance their academic program; (3) develop strategies to facilitate the learning process; and (4) apply those strategies in a practical manner in order to build upon a resource base for academic skill transference. **Note:** Designed for freshman students only and is a general elective under personal development and life skills. Each semester.

AE 260: CAREER EXPLORATION AND PLANNING 3 s.h.

Focuses on the career planning process that involves: (a) career awareness—students learn to examine the world of work and the occupational alternatives available; (b) self study—students learn to examine their own personalities, interests, needs, achievements, abilities, and values when developing a personal career plan; and (c) career decision-making—students learn to practice the skills necessary to make prudent occupational choices and set realistic goals.

Disability Support Services

Jennifer May, M.S., director

102 Ralston Hall

Telephone: 393-2095

E-mail address: jmay@clarion.edu

Website: www.clarion.edu/admin/academicsupport/

The Office of Disability Support Services (DSS) functions as the university's primary vehicle for assisting students with documented disabilities. Students must initiate the process of receiving accommodations by contacting the coordinator of Disability Support Services, located in 102 Ralston Hall to discuss their need for disability related services. Also, as part of the university's registration process, students are provided with a confidential questionnaire that enables them to notify the university of possible accommodations and services that are related to a disabling condition. In addition, students must contact the Office of DSS to submit proper documentation and discuss requested accommodations. Students should contact the DSS office far enough in advance to allow sufficient time to coordinate accommodations.

Information on services for students with disabilities may be obtained by contacting the coordinator of Disability Support Services, 102 Ralston Hall, 814-393-2095. Additional information can also be found in the section, "Nondiscrimination on Basis of Disability" on page 28 of this catalog.

Inquiries regarding services and facilities accessibility may also be obtained by contacting the Assistant to the President for Social Equity, 207 Carrier Hall, 814-393-2109.

Student Support Services

The TRIO Student Support Services Program is available to students with disabilities who desire additional help in the form of academic advising, freshman seminars, informational workshops, and assistance with study skills. Students accepted into the program must meet eligibility requirements established by the institution and the U.S. Department of Education. Students interested in obtaining information about the program should contact the director, Student Support Services Program, 104 Ralston Hall, 814-393-2347. Students accepted into the program must meet eligibility requirements established by the institution and the U.S. Department of Education.



Educational Opportunities Program—Act 101

John Lovelace, director

115 Ralston Hall

Telephone: 393-1876

E-mail address: lovelace@clarion.edu

Website: www.clarion.edu/admin/academicsupport/eop/eop.htm

Educational Opportunities Program/Act 101 increases students' academic skills, abilities, and motivation. Most students enroll through a six-week summer experience. They may earn up to six academic credits. Students participate in an extensive orientation to university life, explore career options, and develop leadership potential. During the academic year, regularly admitted students are selected for the program. Faculty may recommend students for participation, if space is available. Support services offered include academic advising, financial aid counseling, individual analysis of study habits, content tutoring, and assistance in career planning and decision making. The program also sponsors extracurricular activities intended to enrich the student's total experience. All students accepted into this program must meet eligibility requirements as established by the institution and the Pennsylvania Department of Education.

Educational Talent Search Program

Rhonda J. McMillen-Toth, M.S., director

219 Ralston Hall

Telephone: 393-2071

E-mail address: rmmillen@clarion.edu

Website: www.clarion.edu/ets

As part of Clarion University's mission to serve community residents, Educational Talent Search (ETS) serves 900 participants annually in Clarion, Jefferson, and Venango counties. Talent Search assists people age 11-27 to complete secondary education programs and enroll or re-enroll in postsecondary education.

ETS provides such services as study skill instruction, campus visits, entrance exam preparation, post-secondary and career planning, financial aid information, cultural enrichment programs, and leadership training. Participants are selected based upon eligibility criteria established by the U.S. Department of Education, the program's funding agent.

TRIO Student Support Services Program

Shelly Silvis, M.Ed., director

104 Ralston Hall

Telephone: 393-2347

E-mail address: ssilvis@clarion.edu

Website: www.clarion.edu/ed-humn/sss.htm

Students admitted to the TRIO Student Support Services Program are provided with developmental services which may include learning skills assistance, academic advising, and career and financial aid counseling. During the academic year, workshops and on-going services which focus on academic survival and learning-to-learn activities are offered. A reserved section of AE 100: Reading/Study Skills, is also offered to program students. Students accepted into the program must meet eligibility requirements established by the institution and the U.S. Department of Education.

Upward Bound Program

Michele A. Lagnese, M.A., project director

107 Ralston Hall

Telephone: 393-2342

E-mail address: mlagnese@clarion.edu

Website: eagle.clarion.edu/admin/academicsupport/upward

As part of the university's commitment to serve the community, Clarion's Upward Bound Program is designed to generate, in selected area high school students, the academic skills and motivation necessary for success in college. The program operates in two segments—the academic year component and the summer residential component. Support services such as tutoring, visits to post-secondary educational institutions, and career and personal counseling are provided year-round. The six-week summer residential

program offers program participants an opportunity to experience college life while residing on campus. Students receive intensive academic skills instruction and exposure to a variety of cultural and social activities on- and off-campus, in addition to numerous opportunities to visit other college campuses. Students are chosen for the program based on eligibility criteria as established by the program and the U.S. Department of Education.

Extended Programs

Arthur J. Acton, Ph.D., assistant vice president for academic affairs

130 Harvey Hall
Telephone: 393-2774
E-mail address: aacton@clarion.edu

The Office of Extended Programs coordinates all non-credit programming and most off-campus credit programming, including Distance Education, Extended Studies, the Center for Teaching Excellence, the Health Science Education Center, and Continuing Education.

Distance Education and Extended Studies

Lynne M. Lander Fleisher, associate director

131 Harvey Hall
Telephone: 393-2778
E-mail address: lfleisher@clarion.edu
Website: www.clarion.edu/academic/distance/distance.htm

A number of credit courses are provided each semester using Distance Education technologies. Some classes are delivered through the World Wide Web and some by Interactive Video Conferencing (ITV). These ITV courses link a class at an origination site with a distant site. ITV classes are offered between the campuses, including Venango, Clarion, and Pittsburgh, as well as to various other sites around the state. A detailed description and list of all current course offerings are available at www.clarion.edu/academic/distance/distance.htm

Extended Studies coordinates programming for university credit not on one of the university campuses or sites, including programs in area high schools or other facilities to provide courses or degree programs to special populations or groups.

The Center for Teaching Excellence

William J. Williams, Ed.D., director

113 Stevens Hall
Telephone: 393-2776

The mission of the Center for Teaching Excellence is to identify specific educational training needs for the area educational community, develop programs to meet those needs and deliver appropriate programs. Established as an outreach to educators in the community, the center serves as a single point of contact for area educators and Clarion University faculty.

Health Science Education Center

Nancy Falvo, Ph.D., director

330 Main Street, Clarion, PA 16214
Telephone: 814-227-1901
E-mail address: nfalvo1@clarion.edu

The Health Science Education Center's mission is to promote healthy life-styles through interactive educational programs for individuals of all ages. Opened in May 2002, the center provides health education programs for school-aged children living within a 40-mile radius of Clarion. The programs complement the current health and science education standards. All programs offered through HSEC are delivered free of charge to school districts and community members. The HSEC is responsible for the delivery of four statewide youth anti-tobacco initiatives: Project X (grades 4-7), BUSTED! (grades 8-12), PA-SWAT (college campus-based program), and PA Youth Advocacy Network (an online teacher resource).

Continuing Education

Juanice F. Vega, M.B.A., director

210 Still Hall
Telephone: 393-2227
E-mail address: jvega@clarion.edu
Website: www.clarion.edu/ce

The focus of continuing education is to organize and make available to individuals and businesses instructional opportunities and workforce development funding. Educational programs of all types, presented in almost any format, are developed to meet the needs of a variety of audiences. Continuing Education works with numerous companies annually to coordinate and administer funding (WEDnet and CJT) for employee training.

Generally, continuing education activities fall into one of three program types: non-credit courses, open to the general public without regard to educational background; corporate/organizational training that is customized to meet client needs; and workshops, conferences, and seminars which provide a concentrated experience developed for a specific group.

Non-credit courses, as the name implies, do not carry academic credit, do not require admission to the university, and generally do not have examinations or grades. Reasons for pursuing non-credit courses could be for gaining job skills, personal or professional development, intellectual enrichment, or just plain fun.

Accelerated Program

Students who take three summer terms of 10 weeks each may finish the four-year course in three years.

General Policies

Student Records

Student academic and personal records are confidential in nature and shall be released only to appropriate faculty and administrative personnel and to parents and guardians if the student is a dependent. Release of these records to other people, institutions, or governmental and legal agencies shall occur only upon approval by the student or graduate, or upon subpoena.

Transcripts of academic work are available to the student or graduate at the Office of the Registrar when requested by him or her in writing. There is a limit of three transcripts per request per day. All enrolled, degree-seeking students are charged a one-time \$15 transcript fee which is added to their statement of charges from the Accounts Receivable Office.

Grade Release Policy

Public Law 93-380 (The Family Educational Rights and Privacy Act of 1974) prohibits the release of educational records, other than to certain defined exceptions, without the student's consent. One such exception is Section 438(b)(1)(H) which allows release of educational records to "Parents of a dependent student of such parents, as defined in Section 152 of the Internal Revenue Code of 1954."

The Office of the Registrar will send grades to parents upon request, under the provisions of Section 438 or if the student has completed an Authorization for Parental Access to Student Records Form. Grades are available on the Web.

Nondiscrimination on the Basis of Disability

Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 have provided the framework for protecting individuals with disabilities against discrimination. Clarion University, which is a federally funded institution, must provide for nondiscrimination under its federal grants and programs. Thus, "no otherwise qualified individual with a disability in the United States... shall, solely by reason of her or his disability be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance..." (29 U.S.C. §794(a), see also 29 U.S.C. 706(8), see also 42 U.S.C. §§ 12132, 10102, 12114). An "individual with a disability" has been defined, with certain exceptions, as "any person who (i) has a physical or mental impairment which substantially limits one or more of such person's major life activities, (ii) has a record of such an impairment, or (iii) is regarded as having such an impairment." (See 42 U.S.C. § 12101 et. seq. And 29 U.S.C. § 701 et. seq.)

The applications of these laws at Clarion University ensure:

1. No qualified individual with a disability may be excluded solely by such disability from any course, or courses of study.*
 2. Classes may be reassigned for those students with mobility impairments if they are scheduled for inaccessible classrooms.*
 3. Academic degree or course requirements may be modified in certain instances to ensure full participation by students with disabilities.*
 4. Alternate methods of testing and evaluation are available in all courses offered by the university for students with documented requirements for such methods.*
 5. Auxiliary aids are made available by the university for students with impaired sensory, manual, or speaking skills.*
 6. Certain campus rules and regulations may be waived if they limit the participation of qualified students with disabilities.*
 7. Housing opportunities, employment opportunities, and other opportunities for students with disabilities are equal to those of students without disabilities.*
- *Note: The university is only legally obligated to provide academic adjustments to a qualified individual with a disability who has made his or her need known and when it has received the appropriate documentation of such disability to support the adjustment. Thus, the students must provide the university with the necessary medical and diagnostic information to support their requests, including specifying what academic adjustments are needed.*

Information on services for students with disabilities may be obtained by contacting the coordinator of disability support services, 102 Ralston Hall, 814-393-2095. Additional information can also be found in the section, "Disability Support Services" on page 25 of this catalog.

Inquiries regarding services and facility accessibility may also be obtained by contacting the Office of Assistant to the President for Social Equity, 207 Carrier Administration Building, 814-393-2109.

Academic Policies

Scholarship policy at Clarion University is formulated by the Subcommittee on Academic Standards, which is a subcommittee of Faculty Senate.

Academic Honesty

Students at Clarion University shall maintain a high standard of honesty in scholastic work. As members of the university community, students have a responsibility to be familiar with the conduct regulations found in the university catalogs, *Residence Hall Handbook*; *Student Rights, Regulations, and Procedures Online Handbook*, and other university documents. Among the conduct regulations

addressed are acts of academic dishonesty, including plagiarism or cheating on assignments, examinations, or other academic work, or without prior approval of the instructor, submitting work already done for another course.

Students shall avoid all forms of academic dishonesty, including but not limited to:

1. **Plagiarism**—the use of another’s words without attribution and without enclosing the words in quotation marks. Plagiarism may also be defined as the act of taking the ideas or expression of ideas of another person and representing them as one’s own—even if the original paper has been paraphrased or otherwise modified. A close or extended paraphrase may also be considered plagiarism even if the source is named.
2. **Collusion**—when specifically prohibited in advance by the instructor, collaborating with another person in the preparation of notes, themes, reports, or other written work offered for credit.
3. **Cheating on an examination or quiz**—giving or receiving information or using prepared material on an examination or quiz.
4. **Falsification of data**—manufacturing data, falsification of information, including providing false or misleading information, or selective use of data to support a particular conclusion or to avoid conducting actual research.

Complaints of academic dishonesty may be brought against a student by any member of the academic community. Consequences for academic dishonesty can range from a failing grade on a particular assignment or examination to dismissal from the university based on the seriousness of the action and whether it is part of a pattern of academic dishonesty. Instructors imposing a lowered or failing grade on an assignment or course as a result of a charge of academic dishonesty must inform the student. Students have the right to appeal instructor decisions (*Student Rights, Regulations, and Procedures Online Handbook*) either through the grade appeal process (see section on “Student Rights in the Classroom”) or directly to the Conduct Board (see section on “Adjudication Appeals”), depending on the nature of the dispute. Sanctions extending beyond a particular course, such as suspension or dismissal from an academic program or from the university, can only be imposed as the result of complaints filed under the Disciplinary Procedures Code and after formal hearings under this code.

Good Academic Standing

To be in good academic standing at Clarion, undergraduate students must maintain a minimum QPA of 2.00 for both semester and cumulative averages. Individual programs may have higher requirements.

Grading System

A	excellent	AU	audit
B	good	I	indicates incomplete work
C	satisfactory	P	passing
D	poor	W	indicates withdrawal from a course
E	failure	WX	indicates withdrawal from the university
CR	credit		
CX	credit by examination	Z	grade not submitted (Temporary)

Incomplete grades are not given unless a student has been in attendance throughout a semester or session. It indicates the work of a student is incomplete and the final grade is being withheld until the student fulfills all the requirements of the course. Incomplete grades are used only when conditions and circumstances warrant and when evidence is presented to justify its being given.

Students receiving incomplete grades are required to make arrangements with the instructor who submitted the incomplete grade to fulfill the requirements of the course by the end of the following semester, or the incomplete becomes a failing grade. Incompletes are not removed by repeating the course.

Calculation of Quality-Point Average (QPA)

Scholastic standing of students is determined on the basis of a quality-point system in which a grade of A equals four quality points per semester hour; B equals three; C equals two; D equals one; and E equals zero. The number of quality points earned in a single course for one semester is determined by multiplying the quality-point value of the course grade by the number of semester hours in the course; thus, a grade of A in a three-semester-hour course has a quality-point value of 12. A student’s QPA at any specific time is determined by dividing the total number of quality points earned in all courses by the total number of quality hours. For example, if a student earned 30 quality points for 15 quality hours of course work in a single semester, his or her QPA for the semester would be 2.00.

At the end of each semester, a student’s QPA is calculated for that semester and also for all the course work he or she has taken up to and including the semester just completed. The latter is known as the cumulative QPA.

Scholarship policy for two-year programs requires students earn a minimum QPA of 1.75 their first semester and a 2.00 their second semester and thereafter in order to be in satisfactory academic standing. The cumulative QPA should be 2.00 by the end of the second semester.

Academic Probation

To be in good academic standing, undergraduate students must maintain a minimum QPA of 2.00 for both semester and cumulative averages. Students, who have earned 12 quality hours, falling below the 2.00 standard in either the semester or cumulative average will be placed on academic probation effective the next semester of attendance. Students placed on probation will be notified by mail at the end of the Fall

or Spring semester. Students on academic probation may not attempt more than 12 to 15 credit hours per semester.

Academic Suspension

Undergraduate students who are not in good academic standing, despite probationary measures, will be placed on suspension. **Second semester freshmen** on probation with less than a 1.75 **cumulative** and less than a 2.00 **semester** average will be suspended. Students, who have earned 12 quality hours and are not second-semester freshmen, on probation with less than a 2.00 cumulative and less than a 2.00 semester average will be suspended. **Sophomore, junior, and senior** students on probation with less than a 2.00 cumulative and less than a 2.00 semester average will be suspended. Students who are suspended will be notified by mail at the end of the Fall or Spring semester.

Students notified of academic suspension may attempt readmission in the following ways:

1. The student may attend summer sessions at Clarion. If the student earns the required **cumulative** average by the end of the summer and provided it was the student's first suspension, the student will be readmitted. Students who have been suspended two or more times, must appeal in a typed letter to the Academic Standards Committee.
2. The student may appeal the suspension by submitting a typed letter to the Academic Standards Committee and may meet with the committee in person. Students may be readmitted if the poor academic performance was caused by unusual circumstances beyond the student's control or if for other reasons it is not indicative of future performance. Petitions must be filed with the committee through the Office of Academic Affairs by the date specified in the notification of academic suspension.

Use the following guidelines when appealing a suspension to the Academic Standards Committee. If possible, include independent documentation and/or references in the petition. Statements should address:

 - a. why academic performance was poor;
 - b. how the student expects to improve his or her academic performance and how he or she intends to correct the problem identified in item 2a;
 - c. the projected course of study if a change of majors is planned;
 - d. what the student has done since last attending Clarion, including course work completed at other institutions; and/or
 - e. other evidence believed to be helpful to the committee.
3. The student may apply for readmission by writing to the Office of the Registrar after an absence of one or more semesters, provided the suspension was the student's first.
4. Students who have been suspended two or more

times must appeal in a typed letter to the Academic Standards Committee using the guidelines detailed above. Please contact the Office of the Registrar or the Office of Academic Affairs to obtain appeal deadlines.

5. Suspended students who have been absent from the university for a period of at least four years do not need to file a written appeal to the Academic Standards Committee. Such students may be readmitted through the Office of the Registrar (see Academic Renewal).

Students on academic probation may not attempt more than 12 to 15 credit hours per semester.

Suspended students who wish to take credits at another accredited institution should first consult with their dean to ensure the credits will transfer. Clarion accepts credits from accredited institutions, but grades and quality points do not transfer. Clarion permits transfer of these credits provided the credits are applicable to the student's program and a grade of C or better is earned. Courses in which grades were previously earned at Clarion may not be repeated at another university.

Academic Honors

Academic honors are recognized with a dean's list every semester and with the traditional honors designations of cum laude, magna cum laude, and summa cum laude at graduation.

To be included on the semester dean's list, students must be enrolled for a minimum of 12 graded credits; not including credits by proficiency examinations, incomplete grades, or credit-no record courses; and achieve a semester QPA of at least a 3.50. In order to earn graduation honors, students must have earned at least 32 credits at Clarion. Students who graduate with the following cumulative grade-point averages will be recognized as honors graduates:

Cum laude	3.40 – 3.59
Magna cum laude	3.60 – 3.79
Summa cum laude	3.80 – 4.00

For the purposes of the commencement ceremony, graduation honors are based on the last graded term prior to commencement. Designation of graduation honors on the academic transcript are determined after submission of final grades and degrees are posted.

For information concerning honorary kinds of recognition that may be accorded by various colleges and departments, students should inquire at the office of their major department and/or the office of the dean of the college in which they are enrolled.

Class Attendance Policy

Clarion University of Pennsylvania regards student participation in class as essential to the learning process. Therefore, regular classroom attendance is required of all students. Faculty members determine the absence policies for their own classes, except that participation in university

sanctioned activities or active military service will be excused and the student will be given reasonable assistance when class work is missed.

It is understood that absence does not excuse the student from course work and the responsibility to complete assignments on time. If a student knows a class must be missed, the instructor should be notified in advance and arrangements made to complete the work. The instructor is not required to give make-up examinations or accept class work missed as a result of an unexcused absence.

In the event of an unexpected prolonged absence such as a serious illness or military deployment, the Office of the Registrar should be notified as soon as possible so instructors can be informed of the reason for a student's absence. This information is provided to faculty as a courtesy and does not, in and of itself, constitute a valid excuse for the student's absence from class. A valid excuse will be granted to a student for military deployment following receipt of a copy of the military orders from the student's military command.

Senior Citizens

People on Social Security or equivalent retirement benefits are given remission of fees for classes where space is available. Courses are recorded as audits with no grades or credits earned. Contact the Office of Admissions at 393-2306 to complete the process.

Auditing of Courses

With the permission of the instructor, interested persons may audit courses if there is space available in the course from the first day of class and up until the end of the drop/add period. Students must declare their intentions in writing to the Office of the Registrar prior to the end of the drop/add period. Laboratory courses may not be taken as an audit. Students who enroll in a course for credit may change to an audit grade only during the drop/add period. Likewise, students who enroll in a course to audit may only change to credit during this same period.

Credit-No Record Courses

After students have earned a minimum of 30 semester hours of credit and are in good academic standing, they may schedule a maximum of six courses or 18 semester hours for credit-no record. One such course may be taken each semester or summer session. This regulation does not apply to internships in the cooperative education program. All such internships are automatically credit-no record. Courses in one's major and minor fields may not be taken for credit-no record. The option for taking a course for credit-no record is limited to the first five weeks of each semester and the first two weeks of any five-week Summer Session. Satisfactory work in a credit-no record course shall be shown on the transcript as CR, with no record and no credit for less than satisfactory work. Satisfactory work is defined as

the equivalent of C grade or better under the letter grading system in use by the university. Students who desire to have a credit-no record course changed from CR to a letter grade must retake the course. Credit-no record courses are counted in determining the course load for a semester.

Individualized Instruction/ Independent Study

A student seeking individualized instruction/independent study must initiate the request by completing the Petition for Individual Instruction and Independent Study form obtained from the dean of the college in which the course is offered, after preliminary discussions with both the advisor and possible instructor. Justification is required.

Independent Study

Independent study provides the opportunity to a student for a unique academic experience otherwise not available through regular curricular offerings. Independent study should not be confused with cooperative or internship courses which provide job experiences. A project description must be composed by the student and submitted along with the petition form.

Individualized Instruction

Individualized instruction allows a student to take an unscheduled course required for completion of a program of study. The course must not be offered currently, and it should be shown as not scheduled for offering prior to the student's intended graduation.

Class Standings

Class standings (freshman, sophomore, etc.) are determined by credits earned rather than by semesters of residence: freshmen, 1-29 credits; sophomores, 30-59 credits; juniors, 60-89 credits; seniors, 90-120 or more credits.

Course Numbering

Courses numbered 100 to 299 inclusive are primarily for freshmen and sophomores; 300 to 499 are primarily for juniors and seniors. Some courses numbered between 400 and 499 are acceptable for graduate credit. Courses numbered above 500 carry graduate credit.

The university reserves the right to change the sequence and number of courses.

Second Major

A student at Clarion University may earn a second major within the same college of the university and within the same degree category (B.S., B.A., or B.F.A.) by completing all requirements of both major programs. In this case, it is not necessary to meet the requirements for the baccalaureate degree, nor is a second baccalaureate degree granted.

Maximum Credit Hour Load

The normal credit-hour load for undergraduate students in good academic standing is 15 to 18 credit hours per semester, three to five credits per three-week summer session, six to seven credit hours per five-week summer session, and one class during winter intersession. Students on academic probation may not attempt more than 12 to 15 credit hours per semester.

Students wishing to register for 19 to 21 credit hours during any one semester, or more than five credit hours for a three-week summer session or seven credit hours for a five-week summer session or more than one class during winter intersession must have a cumulative QPA of 3.00 or better and the written permission of the appropriate college dean. Students are required to pay for each credit over 18.

All scholastic standards noted above are subject to change by the university.

Readmission

Students who are absent for one or more semesters and students who are returning after an absence following their first academic suspension must apply for readmission in writing to the Office of the Registrar. The deadline is one week before the beginning of classes. Students seeking readmission following an academic suspension should read the section on Academic Suspension (page 30). Students readmitted after an absence of two or more years must meet all requirements of their respective degree program as of the date of readmission.

Repeat Grade Policy

Students shall be permitted to repeat any and all courses as often as they choose; however, once they have graduated from the university, a course cannot be repeated for the purpose of improving one's cumulative undergraduate or graduate quality-point average.

The latest repeat grade shall be the counting grade in the QPA prior to graduation. The quality points, quality hours, and earned hours of the original grade received will be subtracted from the student's cumulative statistics. Grades earned at another institution cannot be used to replace grades previously earned at Clarion.

Withdrawals

Individual Course Withdrawal Policy

An undergraduate student is permitted five individual course withdrawals at Clarion University. Exceptions may be made for withdrawals due to documented extenuating circumstances with approval of the instructor, advisor, and college dean.

All class withdrawals must be initiated by completing a class withdrawal form, which is signed by the student's advisor. The forms are available through the Office of the Registrar. If a withdrawal is not made through the Office of the Registrar, a failing grade will be recorded for the

affected course(s). Classes a student drops during the period of drop/add will not appear on the student's record. Course withdrawals between the end of the second and ninth weeks may be made without penalty. After the beginning of the 10th week of a semester or the second half of a Summer Session, a course from which a student withdraws shall be finally reported with a grade of E. Exceptions may be made for withdrawals due to documented extenuating circumstances such as illness or some other unavoidable occurrence with approval of the instructor, advisor, and college dean.

Withdrawal From the University

Students may withdraw from the university (all courses) through the last day of classes.

If a withdrawal is not made through the Office of the Registrar, a failing grade will be recorded for the affected course(s).

Any student who withdraws from the university either during or at the end of a semester must notify the Office of the Registrar in writing of his or her intention to withdraw and the reason for withdrawal. The written notification is necessary for completion of the student's permanent record. Failure to comply with the regulation will constitute an unofficial withdrawal and may affect the student's chances of future readmission.

University withdrawals, which are recorded with grades of WX, are not included in the limit of five individual course withdrawals.

See section on refunds under financial information. (Pages 37 and 41 for financial implications of withdrawal.)

Graduation Requirements

Graduation from Clarion University with a baccalaureate or associate degree requires successful completion of all specified major, degree, and university requirements outlined by the College of Arts and Sciences; the College of Business Administration; the College of Education and Human Services; the School of Nursing and Allied Health; or the Venango Campus.

Undergraduate students must successfully complete a minimum of 120 credits with both a major and cumulative QPA of at least 2.00 except where the requirements of a particular program or college are higher.

All credits, including transfer credits, must be approved by the appropriate college dean or director and the department chair of the academic area in which the degree is to be granted.

Unless exempt, candidates for baccalaureate and associate degrees must successfully complete ENG 111 with a passing grade (education and nursing majors must earn a grade of C or better).

All students are responsible for knowing the major, degree, and university requirements of their respective programs. Students are advised to meet with their academic advisor on a regular basis throughout their undergraduate career.

Residence Requirements

A minimum of 45 of the last 64 credits required for graduation with a baccalaureate degree must be taken in residence at Clarion University.

Candidates for graduation with an associate degree must complete a minimum of 30 credit hours in residence at Venango Campus in Oil City, Pennsylvania.

Second Baccalaureate Degree

Students who have earned their first baccalaureate degree from Clarion University may earn a second baccalaureate degree from a different college of the university or different degree (B.S., B.A., or B.F.A.) within the same college. This can be accomplished by completing all of the requirements of both degrees. In this case, the student will receive two diplomas.

Students may also pursue two baccalaureate degrees concurrently by completing all of the requirements of both degrees. Students who have earned their first baccalaureate degree from another institution are responsible for satisfying Clarion University's residence requirement.

Academic Renewal

The academic renewal policy permits undergraduate students who return to Clarion University after a minimum four-year absence the one-time option of having D and E coursework excluded from their quality-point average (QPA) calculation. Students enrolled in a bachelor's degree program may have up to 18 semester hours excluded from their QPA calculation. Students enrolled in an associate's degree program may have up to nine semester hours excluded from their QPA calculation. These semester hours must have been completed at Clarion University prior to readmission. The courses, grades, and probationary actions will remain on the transcript with an appropriate notation of academic renewal approved.

Students who have been suspended more than one time and absent from the university for a period of at least four years do not need to file a written appeal to the Academic Standards Committee. These students may be readmitted through the Office of the Registrar. Students must successfully complete a minimum of 30 hours before receiving a baccalaureate degree. Students must successfully complete a minimum of 15 hours before receiving an associate degree.

Students may complete a Request for Academic Renewal form which is available at the Office of the Registrar, 122 Carrier Administration, upon completion of 12 semester hours after readmission with a minimum semester QPA of 2.00.

Students who were in academic progress difficulty for financial aid purposes will remain in an academic probation status unless deficient credits are made up prior to the first semester that the student returns to Clarion University. Once 60 semester hours are earned, the student must have a 2.00 QPA. Removal of up to 18 credits for bachelor's degrees (up

to nine credits for associate degrees) of D and E grades may achieve the required 2.00 QPA. All other current financial aid requirements are in effect each semester that the student enrolls at Clarion University.

Special Program Requirements

Special Program Requirements— Medical Technology

To remain in the Medical Technology Program, students must maintain the following QPA: first-semester freshmen, 2.0; second-semester freshmen and first-semester sophomores, 2.5; thereafter 2.5 with a 2.5 in the natural sciences. Exceptions to these requirements must be approved by the coordinator of medical technology.

Admission to the Medical Technology Program at the university does not guarantee admission to the year in the hospital laboratory. Hospital spaces are limited, are under the control of the individual hospitals, and are quite high.

Special Program Requirements— College of Business Administration

Business students pursuing the B.S.B.A. must meet the requirements for admission to the college's upper division. In addition, business administration students must meet graduation standards beyond general university requirements. The academic standards are fully described under the College of Business Administration on pages 148 and 149.

Students readmitted to the College of Business Administration after an absence of two years or more must meet all requirements of the college as of the date of readmission.

Students transferring into the College of Business Administration from other accredited colleges and universities must have earned a cumulative QPA of 2.50 on a 4.00 scale. This applies to all course work taken at all universities prior to attending Clarion University. Clarion University students transferring from majors outside the College of Business Administration must have earned either an overall QPA of 2.50 or a 2.50 QPA in their most recent full-time (12 or more credits) semester at Clarion University. Students transferring to Clarion University must take a minimum of 50 percent of their business credits at Clarion.

Credits for courses completed at other universities or colleges are transferable to Clarion University, but the grades and quality points are not. Therefore, grades earned in courses accepted by the College of Business Administration to satisfy requirements of the lower or upper division core will not be used in the computation of the QPAs required by the academic standards of the College of Business Administration.

Clarion University students whose major is outside of the College of Business Administration may take no more

than 25 percent of their total credits in courses offered by the College of Business Administration. This would amount to a maximum of 32 credits in a 128-credit hour program or 30 credits in a 120-credit hour program. Students who are enrolled in the business minor may be permitted to exceed this limit, dependent upon individual situations, with the approval of the dean of the College of Business Administration. Economics courses taken by majors in the economics Bachelor of Arts degree are excluded from this restriction.

College of Education and Human Services Selection, Retention, and Graduation Standards

I. Student responsibilities in all college programs

- A. Complete all application forms in a timely fashion:
 1. Admission to program (minimum 60 credits by the end of the semester of application)
 - a. Act 33/151 and act 34 clearances
 - b. Pass the following PRAXIS-NTE tests:
 - 1) Pre-professional skills – reading
 - 2) Pre-professional skills – writing
 - 3) Pre-professional skills - mathematics
 2. Student teaching/internship/externship experience
 - a. Beginning Fall 2005 – PRAXIS II tests must be passed before student teaching
 3. Graduation (from the university)
 4. Certification, where appropriate, from the Commonwealth of Pennsylvania
- B. Meet with advisors on a regular basis for career and program counseling as well as at the appropriate checkpoints in the program to obtain the appropriate forms. Although your advisor should be able to answer your questions, it is the student's responsibility to be informed of the General Education requirements specific to his/her program.

II. Admission to all certification programs

- A. Complete a minimum of 60 credit hours by the end of the semester that application for program admission is turned in (i.e., you may apply in March so you may register for summer/fall courses even though your 60 credits will not be completed until May or apply in October if 60 credits will be completed that December). The 60 credits must include six semester hours of introductory Professional Education courses required by the academic major. **ALL courses require a grade of C or higher.**

Specific introductory courses are listed in the Selection and Retention Standards available in the dean's office.
- B. Complete a speech and hearing screening. This screening is given once every semester—dates and times are posted. While it is preferred you have the screening when applying for program admission, IT WILL NOT keep you from program

admission IF you have completed the other entrance requirements. You MAY complete the speech and hearing screening the next semester.

- C. ACT 33/151, ACT 34, and FBI clearances are required for program admission. **They are valid for one year only, so they will be required again before student teaching or externship. Forms are available online.**
- D. PRAXIS I Tests: Complete and meet state-mandated minimum scores (PASS) on the following PRAXIS-NTE tests: Pre-Professional Skills: Reading, Writing, and Mathematics.
- E. Removal of any academic, physical, or mental deficiencies noted at any point in the student's program that would prevent the candidate from fulfilling the responsibilities of the certification area.
- F. Possession of a **QPA—specific to the student's major** at the time of application. All certification areas: 2.8; rehabilitative sciences: 2.50
- G. Two (2) college-level English courses are required: ENG 111 (Composition) and one LITERATURE course (complete before program admission).
- H. Two (2) college-level MATH courses are required by all majors. The required math competency (listed below) and a higher-level MATH course. **Elementary and early childhood majors MUST meet the math requirements of MATH 111 and MATH 211 with a grade of C or higher BEFORE taking ELED 324 and BEFORE PROGRAM ADMISSION.

MAJOR

MATH REQUIREMENT

(two college-level Maths required)

Elementary and Early Childhood
and (Prerequisite for any DUAL
certification which includes

Elementary or early childhood ...MATH 111, 211

Speech Pathology and

AudiologyMATH 112 or higher +
MATH 221 or PSY 230

Special Education.....MATH 111 + 1 higher level

Rehabilitative SciencesMATH 112

Library ScienceMATH 112 + 1 higher level

Music Education (K-12)MATH 112 + 1 higher level

Secondary Education:

Communication Arts, English

French, Spanish,

Social StudiesMATH 112 + 1 higher level

Biology, Earth and Space

Science.....MATH 171 + 1 higher level

Chemistry.....MATH 270, MATH 271

General ScienceMATH 171, MATH 221

or 321

Mathematics.....CIS 163

PhysicsMATH 270 +1 higher level

PLEASE NOTE:

*MATH 010 or MATH 050 DOES NOT COUNT toward
General Education requirements or toward graduation.*

MATH 110 DOES NOT satisfy math requirement for

education majors. It counts *ONLY* under Liberal Education Electives. It does not count as the second required college-level math course.

Elementary and early childhood majors *MUST* meet the math requirements (MATH 111 and MATH 211) with a grade of C or higher *BEFORE* taking ELED 324.

ALL students must complete **BOTH** English requirements, **BOTH** mathematics requirements, and CMST 113 (Public Speaking) with at least a grade of C prior to student teaching/internship.

TRANSFERS and *READMITS* must also meet the above requirements, but will be treated on a case-by-case basis.

III. Retention in a program

- A. Maintenance of required cumulative QPA.
- B. Attainment of a grade of C or higher in all required professional courses and all required courses (including content competency courses and emphasis courses in elementary and proficiency courses in secondary) in major areas.
- C. Removal of any academic, physical, or mental deficiencies identified after admission to program before being permitted to continue in the program.
- D. Completion of all program requirements.

IV. Qualifications for student teaching/internship/externship

- A. Completion of 90 semester hours of university credit in designated program, including all teaching methods courses.
- B. PRAXIS II (Content Knowledge and Specialty Tests). Beginning Fall 2005 student teachers must provide verification of PRAXIS II tests being passed before student teaching.
- C. A grade of C or higher in all required professional courses and all required major courses in area. Elementary and/or early childhood majors must also have C or higher (or equivalent) in content competency courses and 11-credit emphasis courses.
- D. An overall cumulative QPA of 3.00. Please be aware that even though the courses require a C or higher, all Cs will not calculate a 3.00 QPA. You must have As and Bs to offset Cs and achieve an overall QPA of 3.00.
- E. Satisfactory completion of all tests and clearances (Criminal Record, Child Abuse, and FBI) necessary for field placement.

V. Graduation requirements

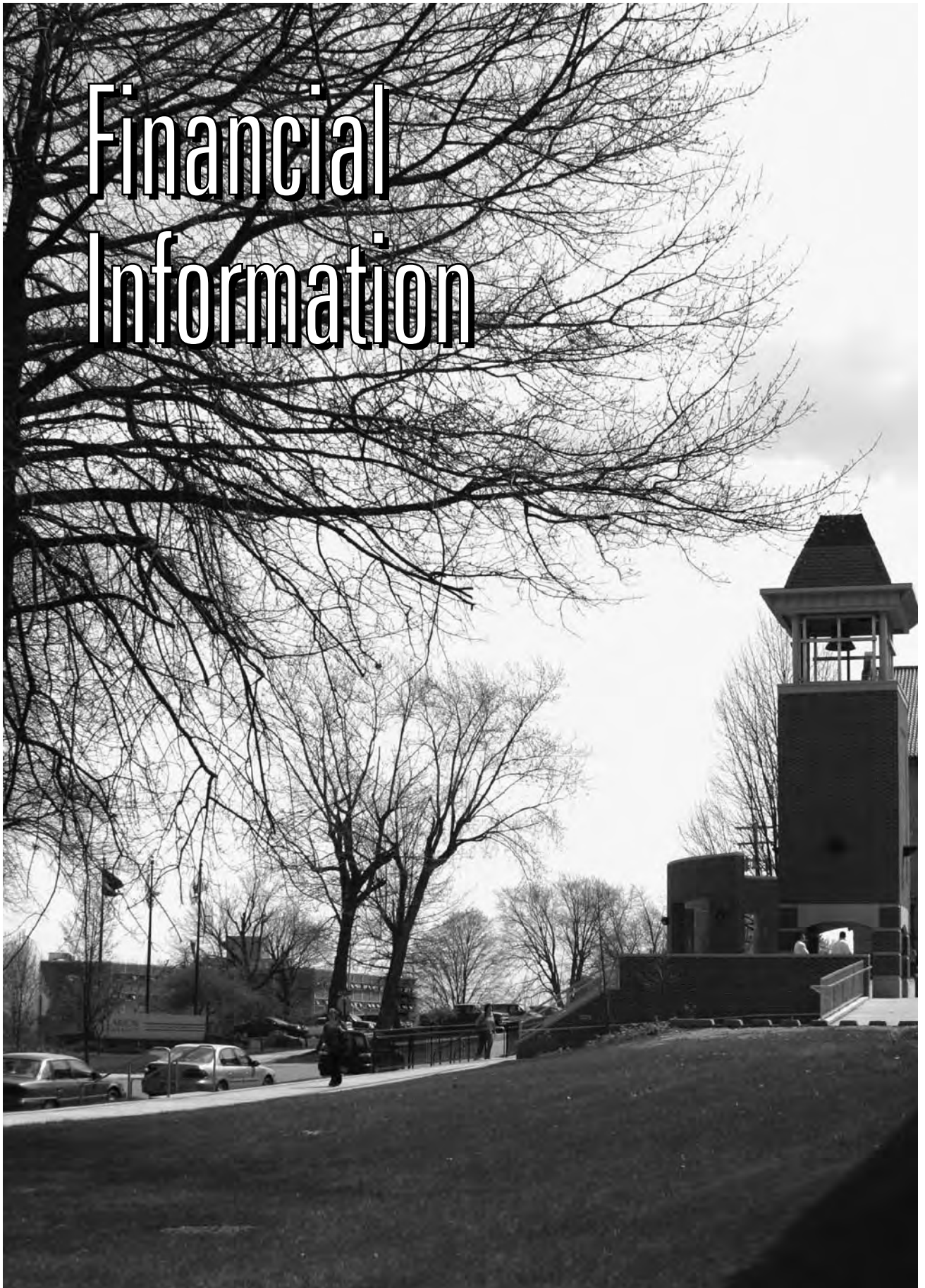
- A. Fulfillment of all university standards for graduation.
- B. An overall appropriate cumulative QPA (3.0).
- C. A grade of C or higher in all required professional courses and all required courses in major area. In addition, content competency courses in elementary and early childhood, as well as 11-credit emphasis in elementary education require a C or higher. All proficiency courses also require a C or higher or equivalent.



VI. Pennsylvania certification requirements at Clarion University

- A. Complete all program requirements and meet the standards of the Teacher Certification Program at Clarion University.
- B. Pass the appropriate examinations (in effect at the time you take the tests) required by the Pennsylvania Department of Education. To be taken by ALL MAJORS at second-semester sophomore year (48-60 credits):
 1. Pre-Professional Skills – Reading
 2. Pre-Professional Skills – Writing
 3. Pre-Professional Skills – Mathematics
 All elementary, early childhood, and K-12 majors (i.e., special education, library science, music, and foreign language) are also required to take:
 4. Fundamental Subjects – Content Knowledge
 5. Specialty Area Exam(s)
 In addition, ALL MAJORS TAKE:
 Test Registration Booklets, which will provide cost of tests and cut-score information, are available in the Office of Field Services (127 Stevens).
- C. Complete application for certification.
- D. Certify U.S. citizenship or hold an immigrant visa which permits employment within the United States and declares an intent to become a U.S. citizen.
- E. Certify no habitual use of narcotic drugs in any form or excessive amounts of intoxicating beverages and not be under indictment nor have a conviction for a criminal offense.
- F. Provide verification of a valid health examination (within one year) and negative tuberculin test (within two years) at the date the application is processed.
- G. Receive recommendation for certification from the Dean, College of Education and Human Services.

Financial Information



Financial Information

General Information

The student is responsible to ensure all Clarion University charges are paid or covered by financial aid by the beginning of each semester or session. Students with delinquent account balances will be charged a late fee and will not be permitted to register for courses. Academic records (transcripts and diplomas) will be withheld until all charges have been paid in full. To avoid late payment fees, all charges not covered by financial aid should be paid by the start of the semester.

Tuition is normally reviewed and set annually by the State System of Higher Education Board of Governors; however, **tuition is subject to change at any time by the board.** A complete undergraduate tuition schedule is shown below.

All **fees** appearing on the student account are payable whether or not the student plans to use these services. These fees are used to support student activities and the operation of the university facilities and **are subject to change.** A description of all fees is provided in the **Schedule of Charges** section below.

Room and Board charges are normally reviewed and set annually by the Clarion University Council of Trustees; however, **room and board is subject to change at any time by the council.** A complete room and board charge schedule is shown below.

University Refunds of tuition and fees for class withdrawal are granted in accordance with the policy established by the State System of Higher Education Board of Governors and **are subject to change at any time by the board.** To receive a refund, students must officially withdraw through the Registrar's Office. A 100 percent refund will be granted only if a student officially withdraws before or on the first day of classes. After the first day of classes, partial refunds are granted based on the following schedule:

Fall and Spring Semesters

Withdrawal Date	Percentage Refunded
First day of semester and before	100%
First week	90%
Second week	80%
Third week	70%
Fourth week	60%
Fifth week	50%
After the fifth week	No refund

Refunds for fall/spring sessions that start on dates other than the official fall and spring class start dates are determined independently based on the session start date and length.

Billing Statements are mailed to the student's permanent (home) address approximately 30 days prior to the start of the semester. Billing and payment instructions that include updated tuition, fee, room and board charges along with complete billing and payment information for the current semester are mailed with each semester's initial billing statement. Each month, students with unpaid balances are sent a billing statement showing the amount due.

A **Monthly Payment Plan** option is offered to Clarion University students. Please refer to the billing information sent with each semester's initial billing for payment plan information.

Schedule of Charges

An **Application Fee** is a non-refundable fee of \$30 that must accompany each application for admission.

An **Admissions Deposit** of \$100 must be paid upon receipt of notice of approval of application for admission. The \$100 fee is not refundable but is deducted from the student's first semester charges.

Undergraduate Tuition is set by the Board of Governors of the Pennsylvania State System of Higher Education and is **subject to change at any time by the board.**

2007-08 Academic Year

Pennsylvania resident:	
Full-time (12-18 credits)	\$2,588.50/semester
For each credit over 18 credits	\$216/credit
Part-time (fewer than 12 credits)	\$216/credit
International students:	
Full-time (12-18 credits)	\$6,472/semester
For each credit over 18 credits	\$539/credit
Part-time (fewer than 12 credits)	\$539/credit
Non-Pennsylvania resident:	
Full-time (12-18 credits)	\$5,177/semester
For each credit over 18 credits	\$431/credit
Part-time (fewer than 12 credits)	\$431/credit

Room Charges for double occupancy of a furnished room is \$1,995 per student per semester. A limited number of single rooms are available at an additional cost of \$562 per semester. The rental agreement for university residence halls is for one academic year.

Students are responsible for damages, breakage, loss, or delayed return of university property. Students are also collectively responsible for damages in common areas of residence halls.

Meal plans – All dormitory residents must participate in one of the following meal plans.

	Standard Plans	Flex Plans
Full-Meal Plan	\$909/semester	\$1,145/semester
Fourteen-Meal Plan	N/A	\$1,112/semester

The following meal plans are available to students who do not reside in university residence halls.

	Standard Plans	Flex Plans
Full-Meal Plan	\$909/semester	\$1,145/semester
Fourteen-Meal Plan	N/A	\$1,112/semester
Ten-Meal Plan	N/A	\$907/semester
Five-Meal Plan	N/A	\$653/semester
Flex only	N/A	\$200
175-meal block with flex		\$1,070/semester
75-meal block with flex		\$683/semester

The summer room and meal charge is determined on the basis of university costs and is estimated per five-week session to be \$926.

Room Deposits of \$125, which are non-refundable, are required to be made by residence hall students to reserve a

room for the Fall Semester. The deposit is credited to the Spring Semester room charges.

Semester Fees

A *Technology Fee* of \$87.50 for full-time Pennsylvania residents and \$132 for non-Pennsylvania residents is charged to: (1) acquire, install, and maintain up-to-date and emerging technologies for the purpose of enhancing student-learning outcomes; (2) to provide equitable access to technology resources and; (3) to ensure, ultimately, that state system graduates are competitive in the technology-sophisticated workplace.

An *Instructional Support Fee* in the amount of 10 percent of tuition for Pennsylvania residents is assessed each semester to every student. The revenue from this fee is used to upgrade instructional equipment, improve library holdings, and for other instructional support purposes.

A *Health Center Fee* in the amount of 3.3 percent of tuition for Pennsylvania residents is charged each semester to every Clarion Campus student. The fee covers the cost of operating and maintaining Keeling Health Center.

A *Student Center Fee* (for Clarion Campus only) in the amount of 6.6 percent of tuition for Pennsylvania residents is charged each semester to every Clarion Campus student. The fee covers the cost of operating and maintaining the Gemmell Student Complex.

A *Student Support Fee* (for Venango Campus only) in the amount of 8.4 percent of tuition for Pennsylvania residents is charged each semester to every Venango Campus student. The fee covers the cost of student support services provided at Venango Campus.

A *Student Activity Fee* is required to be paid by all students prorated on the following basis:

	Clarion Campus	Venango Campus
12 or more credits	\$149/semester	\$144/semester
9-11 credits	\$74.50/semester	\$72/semester
1-8 credits	\$37.25/semester	\$36/semester

The fee is administered by the Clarion Students' Association, which is a student organization approved by the Council of Trustees. The activity fee covers the cost of athletic, social, musical, theatre, and recreational activities.

A *Recreation Center Fee* in the amount of 3.6 percent of tuition for Pennsylvania residents is charged each semester to every Clarion Campus student. The fee covers the cost of operating and maintaining the Student Recreation Center.

A *Transitions Fee* is charged to all new incoming Clarion Campus first-time-in-college (FTIC) students. The fee is \$150 for FTIC students, \$100 for new transfer students, and \$30 for second-year students at the start of their third semester at Clarion University. The fee helps cover the costs of Orientation, Discovery Weekend just prior to the beginning of each semester, Exploration co-curricular activities during the freshman year, and Focus activities during the sophomore year.

Students assigned to an internship, student teaching, or similar program outside a 50-mile radius of the Clarion Campus are exempt from the health center, student center,



and recreation center fees and are only required to pay 50 percent of the student activity fee. However, students must notify the Student Accounts Receivable Office of their exempt status in order to receive appropriate reduction of their fees.

Other Fees and Charges

A *Clinical Appraisal Fee* of \$20 is charged for each clinical appraisal conducted by the Speech and Hearing Clinic.

A *Graduation Fee* of \$15 is charged to each graduating student. The fee covers the cost of commencement and the printing of diplomas.

Late Payment Fees—All charges (tuition, fees, room, meal, other) posted to a student account that are not covered by financial aid are due to be paid the first day of the semester. A \$50 late payment fee will be charged 30 days after the start of the semester to accounts with unpaid balances in excess of \$250. Additional \$25 late payment fees will be posted to accounts with unpaid balances in excess of \$250 at 60 and 90 days after the start of the semester. Total maximum late payment fee per semester is \$100. To avoid late payment fees, all charges not covered by financial aid should be paid by the start of the semester.

Students may obtain **Parking Permits** from the Public Safety Department to park their motor vehicles on university property. Venango Campus students must obtain a permit at the Frame Administration Building. **The fee for student parking is set annually.** Permits are valid from September 1 to August 31 each academic year. New permits are issued at the beginning of each Fall Semester.

A one-time **Transcript Fee** of \$15 is assessed to all students during their first semester. The fee entitles the student to free transcripts for life.

A one-time **Graduation Fee** of \$15 is charged to each student in the last year of their academic program.

The cost of **Books and Supplies** depends on the courses in which the student is enrolled. **Books and supplies are not billed on the semester invoice.** Payment for books and supplies must be made to the University Bookstore at the time of purchase. **Fees are subject to change at any time.**

Rules Governing Residency

Original Classification

A student is classified as a resident or non-resident for tuition purposes at the time of admission to the university. The decision, made by the dean of enrollment management, is based upon information furnished by the student's application and other relevant information. No student, once having registered as an out-of-state student, is eligible for resident classification in the university unless he or she has been a bona fide resident of the state for at least a year immediately prior to registration for the term for which resident status is claimed. The requirement does not prejudice the right of a student admitted as a non-resident to be placed thereafter on resident basis provided he or she has established a bona fide permanent domicile within the state.

Change of Classification

For university purposes, a student does not establish a domicile in Pennsylvania until he or she has been here for at least one year primarily as a permanent resident and not merely as a student. A student is presumed not to be a resident if he or she has resided for a shorter period, but may rebut this presumption by clear and convincing evidence. If the student is enrolled for a full academic program as defined by the university, it will be presumed the student is in Pennsylvania for educational purposes, and the burden will be on the student to prove otherwise. In general, members of the armed forces and their dependents are normally granted in-state tuition rates during the period when they are on active duty within the Commonwealth of Pennsylvania. Members of the armed forces who established a domicile in Pennsylvania immediately preceding entry into government service and who have continuously maintained Pennsylvania as a legal residence will be presumed to have a Pennsylvania domicile.

Subject to the provisions of the preceding paragraph, the domicile of an unmarried minor, or of a student who is claimed as a dependent on the parent's (or legally appointed guardian's) federal income tax return, follows that of the parent or guardian.

Students receiving financial assistance dependent upon domicile in a state other than Pennsylvania are not domiciled in Pennsylvania.

To change residency status, students must fill out a "Residency Classification Data Collection Form" and additionally furnish convincing documentary evidence to support a claim of Pennsylvania domicile. Factors which will be considered in the determination of residence include but are not limited to: payment of state and federal taxes by student (if claiming financial emancipation) or supporting parent as Pennsylvania resident; the holding of a Pennsylvania driver's license; purchase or lease of a permanent independent residence; marriage to a Pennsylvania resident; automobile and other property registered in Pennsylvania; agreement for, or permanent full-time employment in Pennsylvania; and voter registration.

Residency Classification Data Collection Forms may be obtained from, and the completed document and supporting

materials returned to, the Vice President for Finance and Administration in 218 Carrier Administration Building.

The Office of the Registrar shall automatically change a student's residency classification to non-resident if the student changes their permanent address to a non-Pennsylvania address. The student will be notified of this action and will be informed of their right to appeal. The appeal process is the same as described above for changing residency status.

Financial Assistance

Kenneth Grugel, M.A., director

104 Egbert Hall

Telephone: 393-2315

E-mail address: aidoffice@clarion.edu

Website: www.clarion.edu/

Financial assistance is available to students in the form of scholarships, grants, loans, and employment. Detailed information and necessary application forms may be secured from the Office of Financial Aid. Because the determination of eligibility is based on an analysis of a current Needs Analysis Application, students are encouraged to file a Free Application for Federal Student Aid (FAFSA) application and designate Clarion University to receive a copy of that form. The applications are available from Pennsylvania high schools or directly from the Office of Financial Aid at Clarion University of Pennsylvania.

Academic Year

At Clarion University, an academic year is comprised of a Fall and Spring semester during which time a full-time student is expected to complete 24 credits. The period of time school is in session consists of 30 weeks of instruction.

Grants, Loans, and Employment

Pennsylvania and Federal Grants

PENNSYLVANIA HIGHER EDUCATION ASSISTANCE AGENCY GRANTS—The determination of recipients of state grants is made by the agency. The grants vary in amount and are based on the financial need of Pennsylvania students. Application forms may be secured from the agency, high school guidance counselors, or Clarion University of Pennsylvania. A listing of non-Pennsylvania state grants is available upon request from the Office of Financial Aid.

PELL GRANTS—Federal grants available to undergraduate students for a maximum of five academic years. Recipients are determined by the U.S. Department of Education based on financial need. The FAFSA application form is your PELL grant application form.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS—Federal grants available to students with financial need as defined by the U.S. Department of Education and awarded by the Office of Financial Aid. The awards are determined on an individual basis by the Office of Financial Aid at Clarion University of Pennsylvania.

ACG GRANTS—Academic Competitiveness Grants are available to incoming freshmen who graduated high school in 2006, and to sophomores who graduated in 2005, with a "rigorous curriculum." The determination of a

rigorous curriculum is made by the state or local education agency, and the high school must be recognized by the U.S. Secretary of Education. Freshmen are eligible for \$750, and sophomores are eligible for \$1,300. Sophomores must have a cumulative grade-point average of at least a 3.00. Students must have a current FAFSA (Free Application for Federal Student Aid) on file, must be eligible for the federal PELL grant (have an Expected Family Contribution of \$4,110 or lower), must be United States citizens, and must be enrolled full-time in a two- or four-year degree program.

SMART GRANTS—National Science and Mathematics Access to Retain Talent (SMART) grants are available to juniors and seniors who are majoring in physical, life, or computer sciences, mathematics, technology engineering, or in a foreign language determined to be critical to national security. Recipients must be PELL eligible, United States citizens enrolled full time in a four-year degree program with a cumulative grade-point average of at least a 3.00. The maximum award is \$4,000 per year.

Federal Family Education Loan Programs

FEDERAL PERKINS LOAN PROGRAM—The program provides for loans to students who have a demonstrated need for financial assistance and who are in good academic standing.

To be eligible, students must complete an application form, have a current FAFSA form on file in the Office of Financial Aid, be a citizen of the United States or have declared an intention to obtain citizenship, and be enrolled or accepted for enrollment as a student.

The loans, which are non-interest bearing while a student is enrolled, are available to a maximum of \$2,000 per year for undergraduates, with a \$15,000 aggregate limit for undergraduate students.

Repayment of the loan may extend over a 10-year period beginning nine months after graduation from Clarion. Repayments are to be made on a quarterly basis with interest accruing at the rate of five percent per year.

In specified teaching situations, as much as 15 percent of the loan may be canceled for each year of teaching. The borrower's obligation to repay the loan is canceled in the event of death or permanent and total disability.

FEDERAL STAFFORD LOAN PROGRAM—Loans to a maximum of \$3,500 per academic year for first-year students, \$4,500 for second-year students, and \$5,500 for third-, fourth-, and fifth-year students to a limit of \$23,000. Graduate students may apply for up to \$8,500 per academic year in subsidized loans. Loan applications are available from local banks and savings and loan associations. Stafford Student Loans are based on need which must be demonstrated through an approved need analysis system. The approved form is the FAFSA application. Applications and detailed information may be secured from the financial institution from which a loan will be requested. An 8.25 percent capped rate of interest for new borrowers begins accruing six months after graduation or withdrawal, and repayment may extend over a 10-year period. Diplomas will be withheld for those who do not complete an exit interview.

PARENT LOAN FOR UNDERGRADUATE STUDENTS (PLUS)—PLUS loans, which are not based on financial need, are available to parents up to the cost of education minus other aid. The loan has an adjustable rate of interest to a maximum of 9 percent, and repayment begins 60 days after receipt of the loan.

CLARION UNIVERSITY REVOLVING LOAN FUND—This loan fund, for educational purposes only, is available to full-time undergraduate students in good standing. Loans may be granted to a maximum of \$300. The loans are interest-free for 60 days. Thereafter, a \$25 late fee is imposed. Application forms may be secured from the Office of Financial Aid.

Loan Repayment Chart (payback period=10 years)

<i>Principal Amount Borrowed</i>	<i>Number of Monthly Payments</i>	<i>5% (Perkins Loan)</i>		<i>8.25% (Stafford and Consolidated Loans)</i>	
		<i>Payment</i>	<i>Total Interest</i>	<i>Payment</i>	<i>Total Interest</i>
2,625	48	60	277	64	466
3,500	72	56	558	62	949
5,500	120	58	1,500	67	2,595
6,000	120	64	1,637	74	2,831
8,000	120	85	2,182	98	3,775
13,000	120	138	3,546	159	6,134
15,000	120	159	4,092	184	7,077
18,000	120	191	4,910	221	8,493
22,000	120	233	6,001	270	10,380
24,000	120	255	6,547	294	11,324

Employment

Employment on a part-time basis is available to the extent that funds are provided by the federal government and the Commonwealth of Pennsylvania. The assignment of students to part-time campus positions is generally based on financial need; however, it should be recognized that such employment will not be sufficient to meet the total expenses of attending Clarion. The current federal minimum wage is paid to on-campus student employees.

FEDERAL WORK-STUDY PROGRAM—The university participates in the Federal Work-Study Program, which permits eligible students to work while classes are in session. Eligibility requirements for employment include U.S. citizenship, demonstrated financial need as determined by a current Needs Analysis form, and satisfactory academic progress.

STATE EMPLOYMENT PROGRAM—Part-time positions are available under this program to students who are maintaining satisfactory academic progress. Many positions are limited to 15 hours of employment per week.

JOB LOCATION AND DEVELOPMENT PROGRAM (JLD)—Funding for the JLD program is received from the federal government under the College Work-Study Program and is designed to encourage the development of part-time, off-campus, employment opportunities for all Clarion students regardless of financial need.

Students employed under the Federal Work-Study Program and the State Employment Program must be enrolled at least half-time, i.e., six semester hours each semester, to remain eligible for the work program.

Conditions Which Accompany Financial Aid

In order to continue receiving financial aid following initial enrollment at Clarion University of Pennsylvania, students must meet certain conditions each year (or two consecutive semesters, if the student began during the Spring Semester, or if she or he stopped out.) Students must be enrolled at least part-time (6 credits) and must reapply for aid using the FAFSA each year.

Full-time baccalaureate students may receive assistance from most federal Title IV programs for up to six years of attendance or applicable program limits; and state aid programs for up to four years, providing they maintain “normal academic progress.”

Normal or satisfactory academic progress means that full-time undergraduate students must successfully complete a minimum of 21 new semester hours by the end of each academic year, including the summer, before they can be awarded grant assistance for their next school year.

Part-time undergraduate students must successfully complete all courses for which they enroll.

Full-time graduate students must successfully complete 18 semester hours by the end of each academic year, including the summer, before they can be granted assistance for their next school year. Part-time graduate students must successfully complete all courses for which they enroll, and must earn at least nine new credits each year, including summer, in order to make satisfactory academic progress.

Credits for courses which were repeated, from which the student previously withdrew, or which the student previously failed do **not** count as new credits for the purpose of making satisfactory academic progress toward a degree.

In addition to earning the appropriate number of credits each year, all students must attain and maintain a cumulative QPA of at least a 2.00.

Students who fail to achieve a cumulative QPA of at least a 2.00, are normally placed on probation or suspension by the Office of Academic Affairs. If a student in his or her first or second year of an undergraduate program is suspended by the Office of Academic Affairs and appeals that decision, and is permitted to return to Clarion university, his or her federal financial aid will be reinstated, provided the student has earned the appropriate number of credits necessary for satisfactory academic progress.

PHEAA grant recipients must successfully complete at least 24 new semester hours each year to be eligible to receive a state grant the following year.

Stafford Loan recipients can borrow at level 2 once they have earned 30 new semester hours; and at level 3 once they earned 60 credits.

Appeal Procedure

Students denied financial aid for any reason may appeal the denial as follows:

1. Write to the Office of Financial Aid, Clarion University, 840 Wood Street, Clarion, PA 16214-1232, noting the

denial and stating the reasons why financial aid should not be denied. Example: A student may be denied aid because it appears he or she has fewer than 21 credits for the year. Perhaps during the summer at another institution the student has earned, for transfer to Clarion, credits which will fulfill the normal progress requirement but about which the university has not been informed. The student may present the appeal in person at the Office of Financial Aid in Egbert Hall instead of writing.

2. The Office of Financial Aid will review the denial in terms of information provided by the student.
3. Following the review, the Office of Financial Aid will report back to the student concerning the appeal.
4. If the student questions the decision of the Office of Financial Aid, an appeal may be made.

Refund Policy

Students receiving financial assistance from Clarion University are subject to the same refund policies as those who are not aid recipients.

Federal Title IV Regulations: If a recipient of Title IV funds (Pell grant, SEOG grant, or Stafford loan) withdraws from school after beginning attendance, a portion of the Title IV funds may have to be returned. Title IV funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student withdraws, the student may no longer be eligible for the full amount of the Title IV funds that the student was originally scheduled to receive.

If a student withdraws before completing 60 percent of the semester, the percentage of Title IV funds earned is equal to the percentage of the semester completed. The university is required to return the unearned portion.

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

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula: Aid to be returned = (100 percent of the aid that could be disbursed minus the percentage of earned aid) multiplied by the total amount of aid that could have been disbursed during the payment period or term.

If a student earned less aid than was disbursed, the institution would be required to return a portion of the funds and the student would be required to return a portion of the funds. Keep in mind that when title IV funds are returned, the student borrower may owe a debit balance to the institution.

If a student earned more aid than was disbursed to him/her, the institution would owe the student a post-withdrawal disbursement which must be paid within 120 days of the student's withdrawal.

The institution must return the amount of Title IV funds for which it is responsible no later than 45 days after

the date of the determination of the date of the student's withdrawal.

Refunds are allocated in the following order:

- Unsubsidized Federal Stafford Loans
- Subsidized Federal Stafford Loans
- Federal Perkins Loans
- Federal Parent (PLUS) Loans
- Federal PELL grants
- Federal ACG/SMART
- Federal Supplemental Educational Opportunity Grant

If a student withdraws after completing 60 percent of the semester, the percentage of Title IV funds earned is 100 percent.

Students who withdraw after the semester begins or reduce their credit hour load should contact the Financial Aid Office to determine the impact on their financial aid awards.

Note: The university refund policy for tuition and fees is different from the Federal Title IV regulations.

Clarion University Undergraduate Student Scholarships

The following information illustrates the many scholarship opportunities available to students at Clarion University. Throughout the past year, endowed scholarships, annual scholarships, and athletic scholarships provided support to more than 700 students. Most of Clarion's scholarships are funded by way of private support through the Clarion University Foundation, and are managed by the Office of Scholarship Administration, within the Enrollment Management area of the university. Please contact Sue McMillen at 814-393-2306 if you are unclear about any of the information below.

University-Wide Scholarships

Lori Ann Aaron Memorial Scholarship: Lori Ann (Bessetti) Aaron graduated from Clarion-Limestone School District in 1993. She was a gifted student and pursued her higher education at Clarion University. She received her bachelor's degree in finance in 1996 and completed her MBA in 2001. The scholarship was established by Lori's husband, Mark Aaron, their families, and friends. To be eligible for consideration, a student must be an incoming freshman with a minimum 3.0 grade-point average in a high school college preparatory curriculum, and must demonstrate financial need determined by FAFSA. First preference shall be granted to students from Clarion-Limestone School District. Second preference shall be granted to students at all other Clarion County schools. Students will be automatically considered via their admissions credential.

Clarion University Alumni Association Scholarships: The Alumni Association has made these scholarships available for each new academic year plus eight Leadership Awards. At least two of the Leadership Awards are reserved for children of Clarion University alumni. Special consideration will be given to participants in the University's Eagle Ambassadors program for one scholarship and three leadership Awards. The awards are open to full-time undergraduate students

who will have completed at least 30 credit hours at Clarion University prior to the next academic school year and will not be graduating before December of the next academic year. The selection criteria include a 3.0 or better cumulative grade point average, community service, service to Clarion University, letters of recommendation and financial need. Applications are available in the Alumni Relations Office and questions can be answered by calling 814-393-2637. Final date for returning application is January 31.

Clarion University APSCURF Scholarship for Incoming Freshman: This scholarship was established as a memorial to deceased and retired Clarion University faculty and is funded annually by the Clarion University Association of Pennsylvania State College and University Retired Faculty (APSCURF). This scholarship perpetuates the long-term commitment of retired faculty to Clarion University and present day students. To be considered for this scholarship, candidates must have a minimum SAT total score of 1000 or ACT composite score of 22, and graduate in the upper two-fifths of high school class. Preference will be granted to a descendent of past or present Clarion University APSCURF members. Students meeting this preference and who feel they meet the academic criteria need to submit a letter indicating they are a descendent of a retired Clarion University faculty member indicating the name of the faculty member to the scholarship administrator in the Admissions Office, Clarion University, by February 1. Award offered in February for the following school year.

Band Scholarships: Scholarships are available to students who participate in the Marching and Symphonic Bands. Criteria for selection are musicianship, instrumentation needs, academic promise, and leadership potential. Students selected by the conductor of bands. The annual awards may be renewed subject to the availability of funds. The number and amount may vary each year. For additional information contact the conductor of bands at 814-393-1828.

Donna Dupont Bishop Presidential Scholarship for Incoming Freshman: This scholarship established by J. Donald Bishop in honor of his late wife, Donna Dupont Bishop '72, is intended for an outstanding new student. Award criteria include a minimum SAT of 1300, top two percent of class, and first preference is given to a student with financial need. This renewable award is offered once every four years. When available, students are automatically considered for this award when they submit their application for admission.

The Bobbi Scholarship Fund: This scholarship established by Ms. H. Roberta "Bobbi" Heeter to provide financial support for Clarion University students who are the dependent children of widows or widowers. Just prior to her retirement in 2002, after 28 years of service, Bobbi became the first recipient of the Clarion Proud Award. To be considered, candidate must be an incoming freshman, dependent child of widow or widower, show financial need, and achieved a good high school academic credential. It is the intent of the donor that the award will continue to support the same student throughout his/her undergraduate career; therefore it is available once every four years. The Clarion University Scholarship winner must maintain a 2.5 cumulative grade point average on a year-to-year basis. If you feel you qualify for consideration of this award, please send letter indicating so to the Scholarship Administration Coordinator, Admissions Office, Clarion, PA 16214.

Sara Ciccirelli Leadership Scholarships: Established by the estate of Sara (Milanovich) Ciccirelli, '32, who taught English for 25 years in the Union School District. To be considered, students must demonstrate strong grades in challenging curriculum and have a minimum SAT total score of 1000 (critical reasoning and mathematics component) or a composite score of 22 on the ACT. First preference is given to students from Union School District in Rimersburg. Second preference is given to students from other Clarion County schools. Students must demonstrate financial need and are automatically considered when they submit an application for admission.

Clarion County Rod & Gun Club Endowment: Established in 2003 by the members of the Clarion County Rod & Gun Club. The organization promotes academic values, and foremost, the study of our native wildlife and habitat and its management. The endowment is in honor of Lewis Knight Sr., a founding member and leader, and is a way for the club to help young men and women who share our members' interest in the natural heritage of northwestern Pennsylvania. To be considered, the student must be an incoming freshman at Clarion

University with a minimum SAT total score of 1000 (critical reasoning and mathematics component) and show financial need via the FAFSA. First priority shall be given to a child of a member in good standing of the Clarion County Rod & Gun Club. The preference of the club is to award the scholarship to someone who is majoring in environmental science and/or who demonstrates interest in the natural heritage of northwest Pennsylvania through extracurricular activities.

Clarion University Federal Credit Union (CUFCU) Scholarship: As part of its dedication to serving and supporting membership, CUFCU makes available two scholarships each academic year, pending available funds. Scholarship applicants must be a member of the CUFCU and meet the following criteria: completion of 60 credit hours, a minimum of 3.0 GPA, and a record of service activities. One scholarship is available to a current Clarion University student. Application is in April. Dependents of CUFCU board members and CUFCU employees are ineligible. Applications and additional information is available in the CUFCU office located in 152 Gemmell.

Class of 1943 Scholarship Endowment: This award was established in 2005 by the Class of 1943. As an integral part of Clarion's rich tradition of excellence, members desire that this will be an annual scholarship awarded to an incoming Clarion University student. The scholarship perpetuates the long-term commitment of the class members to their alma mater and present-day students. To be eligible for consideration, student must have a SAT total score of at least a 1000 (critical reasoning and mathematics component) or ACT composite score of 22, a grade point average of 3.2 or better on a 4.0 scale, and financial need verified by FAFSA. No scholarship application is required; students reviewed for award upon receipt of admissions materials and FAFSA.

Mary & Martha Colegrove Educational Fund Scholarship: Award made to women from McKean County. The recipients can continue to receive the awards during subsequent years if students maintain a cumulative 3.0 QPA at Clarion University. Students' records are reviewed for this award via their admissions materials. No scholarship application is required. Award made by February 1.

Commodore Corporation/Richard Boyle Scholarship: Established by the Commodore Corporation in memory of former manager, Richard Boyle. The purpose of the scholarship is to provide support for dependent children of employees of the Commodore Corporation plant and the Colony Factory Crafted Homes plant in Clarion County. Selection is based upon demonstrated financial need, a written statement of application, and letters of recommendation. Application information can be obtained at Commodore at 814-226-9210; Colony at 814-226-9590; or the Financial Aid Office at 814-393-2315. Application deadline is April 15.

Minnie D. Croyle Scholarships: An endowment fund was established by the estate of Miss Mary Croyle to provide scholarships for eligible undergraduate students residing in eastern Redbank Township, Clarion County, Pa. Students from western Redbank Township will be considered secondarily. Selection is based upon financial need (FAFSA) and academic achievement. Contact the Foundation Office 814-393-2572 or the Redbank Valley High School Guidance Office at 814-275-2421 for additional information. Application deadline date is April 1.

DiTommaso Family Scholarship Endowment: This scholarship was established by John DiTommaso, Clarion University Class of 1978, in honor of his parents, Angelo and Dorothy DiTommaso. The award will be offered to an incoming freshman graduating from either Hempfield (Greensburg), Penn-Trafford, Norwin, Jeannette, or Greensburg Central Catholic High School. To be considered, eligible candidates must have a minimum SAT total score of 1100 (critical reasoning and mathematics component) or ACT composite of 24 or better. Students also need to be in the upper two fifths of senior class. All applicants for admission who meet the specific criteria will automatically be considered for this scholarship award. The DiTommasos have had tremendous community support for many years and felt this was one way to acknowledge their appreciation.

The W.E.B. Dubois Scholarship: Established by Clarion University Minority Alumni to support and assist with the retention of strong students. To be eligible for consideration, student must demonstrate evidence of need by a current FAFSA form on file and be a second semester freshman or above with at least 12 credits earned with a cumulative GPA of 3.0 or higher. An essay is required and the contact person for application is Rogers Laugand, Director of Minority Student Services at 814-393-2043. Deadline date is first Friday in April.

Edith Davis Eve Scholarships: The Fund for the Advancement of the State System of Higher Education provides one-time scholarships to incoming students from Blair County. Scholarships available to State System universities each year on a rotating basis as determined by the Office of the Chancellor. These awards are based upon academic achievement and financial need. Need to file FAFSA. Student records are reviewed for this award via their admission materials; no scholarship application is required. Awards usually offered prior to April 1, when available.

Educational Opportunities Program/ACT 101 Scholarship: These scholarships will be awarded each spring. Any freshman, sophomore or junior who demonstrates academic achievement, leadership qualities, and commitment to the Educational Opportunities Program/ACT 101 may apply. Candidates must have a minimum overall GPA of 3.0. For additional information contact the **Director of EOP/ACT 101** program at 814-393-1878.

Foundation Honors Scholarships: Academically talented students at Clarion who participate in the Honors Program are eligible for Honors Scholarships. Students are selected on the basis of academic achievement and evidence of leadership and motivation. The scholarships are renewable, provided that students maintain the academic standards required by the program. Contact the **Director of the Honors Program** at 814-393-2585 for additional information.

Foundation Leadership Scholarships: These scholarships are available to freshmen on a one-time basis. Past recipients have a minimum SAT total score of 1200 (critical reasoning and mathematics component) and are in the upper 10 percent of his or her high school graduating class. Amounts vary. Students are reviewed for this scholarship upon receipt of their admission materials; no scholarship application is required. All awards offered prior to March 1.

Foundation Non-Instructional Staff Scholarship: Annually the foundation makes available six \$500 scholarships to be awarded to university staff members and their dependents.

Lois Borland Fulmer Endowed Scholarship: This scholarship fund established by the family and friends of Mrs. Fulmer to honor her dedication to teaching. The awards will be made to an entering or continuing adult student (full-time or part-time) of any major. Application information can be obtained each spring from the Financial Aid Office at 814-393-2315. Deadline date is April 1.

Inez and B.H. Fulton Memorial Leadership Scholarship: Established by Ralph ('31) and Virginia Fulton in memory of Ralph's parents. Past recipients have a minimum SAT total score of 1200 (critical reasoning and math components) and are in the upper 10 percent of his or her high school graduating class. Incoming students are reviewed for this scholarship upon receipt of their admission materials; no scholarship application is required. All awards offered prior to March 1.

Helen Gendler Memorial Scholarship: This award established by Dr. and Mrs. Stephen Gendler in memory of Helen Gendler. Funds provide an annual scholarship to a student with a disability who is registered with Special Services. Selection is based upon academic achievement, service to the university or community, and financial need. Contact Student Support Services at 814-393-2347 for additional information.

Mary R. Hardwick Scholarship: This fund was created to honor Dr. Mary Hardwick, retired Speech Communication and Theatre professor, and her career as a gifted artist and dedicated educator. Scholarships are available to incoming freshmen or transfer students. Selection is based upon a required essay, financial need, and overall academic standing. Student's essay of no more than two pages, double spaces, needs to focus on describing how he/she has come to learn that a relationship with an individual who possesses the values of nurturance, compassion, collaboration, and respect for all living things can make a difference in the life of another. Deadline date each year is March 17. Contact the Office of Scholarship Administration, Admissions Office, Clarion University on availability of scholarship.

Walter L. Hart Scholarships: These multi-year scholarships, presented in honor of the former admissions director, are awarded to the strongest incoming freshmen. Past recipients were in the top five percent of their graduating class, with SAT total scores in excess of 1300 (critical reasoning and math components), and with outstanding accomplishments and significant contributions through involvement in extracurricular activities. Students must meet required academic standards to receive the award in subsequent years. Student records are reviewed for this award via their admission materials; no scholarship application is required. Awards offered prior to February 1.

Ruth A. Hill Scholarships: These scholarships established in honor of Ruth A. Hill, Oil City Pennsylvania, to aid African American students. They are based on financial need and scholastic excellence. First preference is African American students from Venango County. Nominated candidates for scholarship are presented to the Ruth A. Hill Foundation Board for approval.

James A. Hughes Memorial Scholarship: Established with the Fund for the Advancement of the State System of Higher Education to honor Mr. Hughes, a founding member of the Board of Governors, to provide recognition and financial assistance to first year students at State System Institutions who reside in Philadelphia and have attended certain Philadelphia high schools. Nominees will be selected via admissions files and are required to write an essay and submit a letter of recommendation. Notification process usually occurs in April.

Interhall Award: These scholarships are available to residence hall students who have contributed positively to the residence hall environment. For further information contact the advisor to Interhall Council at 814-393-2355.

M.M. and Minnie H. Kaufman Leadership Scholarships: This scholarship established by Miss Virginia Kaufman ('37) in honor of her parents. Scholarships are available to freshmen on a one-time basis. Past winners have a minimum SAT total score of 1200 (critical reasoning and mathematics component) and are in the upper 10 percent of his or her high school graduating class. Amounts vary. Students are reviewed for this scholarship upon receipt of their admission materials; no scholarship application is required. All awards offered prior to March 1.

Clara Louise Kiser Memorial Fund Scholarship: Scholarships, not limited in number or amount, for students graduating from the Clarion Area School District. The scholarships are awarded according to financial need to students planning to attend college or vocational school. Instructions for completing the application process may be obtained from Mr. Stephen Kosak, Box 374, Oil City, PA 16301. Deadline for submissions of application is April 15.

John F. Kuhn Memorial Scholarship: This scholarship established by family and friends of Dr. Kuhn, former Provost of Clarion University. Scholarship will be awarded to a student who demonstrates academic achievement, high school and community involvement as well as an eclectic array of interests. Selection will be done via admissions materials. Award offered prior to March 1.

Sonja and Chuck Leach Leadership Scholarship: This scholarship established by Mr. and Mrs. Leach to help students pursue their life goals. The scholarship is available to a new freshman on a one-time basis. Past winners have a minimum SAT total score of 1200 (critical reasoning and mathematics component) and are in the upper 10 percent of his or her high school graduating class. Amounts vary. Students are reviewed for this scholarship upon receipt of their admission materials; no scholarship application is required. All awards offered prior to March 1.

Margaret and Irvin Lesher Foundation Scholarships: Scholarships, not limited in number and not specified in amount, granted only to graduates of Union Joint High School. Eligible students may receive the award for up to four years, provided they maintain a QPA of 2.5 or above. Recipients are selected on the basis of financial need and academic record. Instructions for complete application process may be obtained from Mr. Stephen Kosak, Box 374, Oil City, PA 16301. Deadline for submission of application is April 15.

Clarence and Janet Lesser Scholarships: The Lesser Trust Fund provides scholarships to successful students in the areas of theatre, art, music, and athletics. High school students who have exhibited high interest and achievement in these areas are urged to apply. Application for consideration needs to be submitted prior to April 1. Selection is based upon talent, academic promise, and leadership potential. Awards may be continued in subsequent years at the discretion of the selection committee, subject to the availability of funds. Contact the Financial Aid Office at 814-393-2315 for additional information.

Linnan/Brown Recognition Scholarship: This scholarship established by Tony Linnan, Class of 1989 and Kathy Linnan, Class of 1973, in recognition of their parents George & Virginia Linnan and Dale & Mary Lou Brown. Eligible candidates must be a full-time student, have earned a minimum of 32 credits toward the completion of a specific baccalaureate degree, have a grade point average of 3.0 in the previous semester, be a Pennsylvania resident, and have financial need as demonstrated by the filing of the FAFSA form. Students must submit letter of interest and resume of college experiences to Sue McMillen c/o

Admissions. Deadline for consideration is March 17.

Ken, '52 and Joan Miller Scholarship: This award is in honor of Joan and Ken Miller who was one of the founding donors of the Clarion University Foundation. To be considered, a student must have completed FAFSA, have a minimum 2.8 grade-point average in high school and must maintain a 2.8 QPA while a student at Clarion University working toward an academic degree. The committee will award scholarships according to the following preferences: Applicants who are members or children of members of Zion Lutheran Church in Shannondale, Pa. are first preference; residents of Clarion County, residents of Forest County, residents of Jefferson County, and residents of Armstrong County, are second through fifth preferences. In regards to applicants who are members of Zion Lutheran Church or children of members, there shall be no restrictions for class rank, grade-point average, or years of eligibility.

Dean James D. Moore Scholarship: Scholarships in memory of Mr. Moore, dean of academic affairs at Clarion from 1943 to 1972, are available to members of the university's Student Senate. Candidates are evaluated on the basis of academic achievement and leadership. For further information contact the vice president for student and university affairs at 814-393-2351.

John Mochnick Honors Program Scholarships: Created by the estate of John Mochnick to provide scholarships for academically talented students. Students who are accepted into the Honors Program by March 15 of their senior year in high school are automatically considered for this scholarship. Outstanding grades in challenging curriculum, SAT total scores, college major interest, and unique experiences/abilities, are all considered by the Director of Honors Program committee.

John Mochnick/ Penn Trafford Leadership Scholarship: This leadership scholarship was established for high achieving students entering Clarion University from Penn-Trafford High School. Mr. Mochnick had great affection for the Penn-Trafford School District. Past winners have a minimum SAT total score of 1100 (critical reasoning and mathematics component) and are in the upper 10 percent of his or her high school graduating class. Amounts vary. Students are reviewed for the scholarship upon receipt of their admission materials; no scholarship application is required. All awards offered prior to March 1.

New Castle Wolves Club Scholarship: This scholarship established by the National Association of Wolves-New Castle Club to provide assistance to Clarion students from Lawrence County. Candidates must be full time students and must have graduated in the upper two-fifths of their high school class. Students are eligible to receive the award in subsequent years providing they remain in good academic standing. Candidates will be considered via their admission materials, and financial need. Contact your high school guidance office for further information and scholarship application form. Application deadline is April 5.

The Panos and Pavlos Award: Established by Mr. Panos Theodoridis, Class of 1990 and Pavlos Ignatiades, Class of 1986 & 1988, for international students originating from Greece or Cyprus. For consideration, contact the Clarion University International Office.

The Pay it Forward Scholarship: Established by James Staab, a 1970 graduate of Clarion Limestone High School, and Sally (Harris) Staab, a 1972 graduate of Keystone Oaks High School. The purpose of the scholarship is to recognize an entering Clarion University student who has graduated from one of the aforementioned schools who clearly understands and demonstrates the concept of Pay It Forward. To be eligible for the scholarship, students must have a minimum graduating point average from high school of 2.75, and minimum S.A.T. total score of 900 (critical reasoning and mathematics component) (A.C.T. composite equivalent is 19). Applicants will be asked to submit a short essay, not to exceed one page, on their concept of Pay It Forward." Applicants for the scholarship must submit their application along with their essay on or before April 1. Contact the Office of Scholarship Administration at 814-393-2306 for further information.

Dr. Donald A. Nair Phi Eta Sigma National Honor Society Scholarship (Freshmen): The Clarion University chapter of Phi Sigma, a member of the Association of College Honor Societies, offers one cash award each year. The candidate must be a member of the Honor Society, which requires a minimum 3.5 QPA after one or two semesters. Selection is based on academic record and participation in extracurricular activities. Contact the Phi Eta Sigma faculty advisor, Jodi Hagan.

Dr. and Mrs. Arthur William Phillips Scholarships: These scholarships are made possible by a donation from the Phillips Charitable Trust of Oil City. Eligible students must have attended high school or

have been a permanent resident for the last five years in Butler, Clarion, Forest, Mercer, or Venango Counties. Selection is based upon positive academic records. Financial need shall be considered secondarily. Further information can be obtained at the Financial Aid Office at 814-393-2315. Application deadline is April 1.

Richard Redick Memorial Scholarship: This endowed scholarship was established in memory of Clarion student Richard A. Redick. The awards are available to full-time students who are active in the Returning Adult and Commuting Students organization. Selection criteria include financial need, academic performance, and community service. Additional information may be obtained from the RACS organization advisor at 814-393-2272.

The Diane L. Reinhard Student Housing Scholarship Endowment: This scholarship fund was established to honor Clarion's fourteenth president, Diane L. Reinhard for her distinguished service from 1990 through 2003. As tribute to President Reinhard's determination and tireless efforts to bring a modern, high quality, residential learning community into being, Clarion University Foundation, Inc. named its new housing development "The Diane L. Reinhard Villages at Clarion University" and announced the creation of a scholarship endowment. To be automatically considered for a village scholarship the incoming freshman must demonstrate high level of academic achievement, active involvement in student leadership, commitment to community service, and participation in extracurricular activities. Diane L. Reinhard Scholars will reside in the Reinhard Villages at Clarion University throughout each semester they receive support.

Lyle G. Reinhard Scholarship: This scholarship established by President Diane Reinhard in memory of her father. One award for a new Clarion Campus freshman graduating near the top of his or her high school class with SAT total of at least 1050 (critical reasoning and mathematics component). Past winners have been well rounded and academically strong. Students are reviewed for this award via admissions materials; no scholarship application is required. Award offered prior to March 1.

Cecil and Agnes Rhodes Memorial Scholarship: Established by Reverend Clayton Rhodes '53 in memory of his parents. Candidate must be an entering freshman that is a graduate of Union High School (Clarion County), have a minimum SAT total score of 900 (critical reasoning and mathematics component) and graduated in the upper two fifths of his/her high school class. Student records are reviewed for this award via their admission materials. Award offered prior to March 15.

Rotary Club of Clarion Scholarship: This scholarship was established by the Clarion Rotary Club to assist deserving students from the Clarion area. Candidates must be a current resident of Clarion County and a graduate of Clarion Area, Clarion-Limestone, Keystone, North Clarion or Redbank schools and must be in the top twenty percent of their graduating class. Also must have maintained a QPA of 3.0 on a 4.0 scale for grades 10, 11 & 12 and must have a SAT total score of 1150 (critical reasoning and mathematics component) or a composite score of a minimum of 26 on ACT exam. The applicant shall provide a letter of recommendation or endorsement from a teacher or administrator at their high school. The applicant shall also provide evidence of active service to the school and community through participation in extracurricular and civic activities and or organizations. Award made in the spring.

Mary Catherine Murphy Schierberl Leadership Scholarship: This scholarship was established in memorial to Mary Catherine Murphy Schierberl, Class of 1909, by her children, grandchildren, great grandchildren and friends of the Schierberl, Wolf, and O'Toole families. This scholarship is available to a freshman on a one-time basis. Applicants must have a minimum High School GPA of 3.0, graduate in the upper half of their class, and have an average SAT total score compared to other incoming freshmen. Student records are reviewed for this scholarship upon receipt of their admission materials; no scholarship application is required. Award offered prior to March 1.

Frank H. Sessions Scholarship: This scholarship was established in honor of Dr. Frank H. Sessions, former dean of graduate studies and continuing education. The funds are awarded each year in recruiting learning disabled or handicapped students. Student needs a 3.0 or above cumulative grade point average. Contact Student Support Services at 814-393-2347 for application information. Deadline date for application is April 1.

The John S. Shropshire Memorial Scholarship: Established in memory of John S. Shropshire, dean of enrollment management and

academic records at Clarion University, Clarion alumnus Class of 1961. John had a strong affinity for the Pittsburgh city public school system, having graduated from Westinghouse High School, and a strong affection as well for the Harrisburg city public school system, having taught at Central Dauphin East High School for many years. The following are the criteria for a student to be eligible for the John S. Shropshire Memorial Scholarship: student must demonstrate evidence of financial aid via the FAFSA form, must be a second-semester freshman or above with at least 12 credits earned with a cumulative GPA of 3.0 or higher, and must have graduated from a Pennsylvania city public school listed with the Admissions and Financial Aid offices. An essay is required on the topic, "How will you use your education to make the world a better place?" Essay is not to exceed one page in length, typewritten. Applications are available in the Admissions office and Financial Aid office. Deadline for applications is the first Friday in April and the award is made for the following fall and spring semesters.

Sigma Tau Gamma/Sigma Tau Scholarship Endowment: This scholarship was established in 2002 by the brothers of Sigma Tau Fraternity. The fraternity promotes academic values and has decided to establish this award as a way to give back to the university. Many of its members participated in extra curricular activities whose participation and contributions helped establish the rich tradition at Clarion University. To be considered, students must have accumulated 48 credit hours and be enrolled in the Honors Program. Students must have a cumulative grade-point average of 3.4 or above, show financial need per FAFSA documentation, and be involved with a service related extra curricular activity. Contact the Director of Honors Program for further information.

Sitzman International Student Award for Outstanding Achievement: An annual award will be presented to the outstanding foreign student of the year based on services and activities performed for the university, the Clarion International Association, civic and professional groups, and other activities of academic and/or cultural enrichment. Students selected by a faculty committee. Contact the Office of International Programs at 814-393-2340 for more information.

Christopher John Stahlman Memorial Scholarships: Established in memory of Christopher, a Clarion University graduate, by his parents. Two C.J. Stahlman Memorial Scholarships are awarded annually to Clarion County students in recognition of outstanding academic achievement, integrity, and service. Requirements include SAT total scores in excess of 950 (critical reasoning and mathematics component) and a grade-point average no less than 3.3. One award is exclusively for students from Clarion- Limestone High School. This award can be renewed in the sophomore, junior, and senior years, provided that the student maintains the required academic criteria. The second award, available to students from any Clarion County high school, is renewable for the sophomore year. Application is required, along with an essay and interview. Application information can be obtained from Clarion County high school guidance offices or the Clarion University Admissions Office at 814-393-2306. Application deadline is April 1.

State Board of Governors Scholarships (B.O.G.): B.O.G. Awards are made each semester to under represented students. The candidates record must show a strong academic curriculum, contribution to the community, participation in extracurricular activities, and diversity of background. These scholarships are renewable. The Admissions Office will contact eligible candidates.

Minnie Patton Stayman Scholarship: The Fund for the Advancement of the State System of Higher Education provides one-time scholarships to incoming students from Altoona, Pennsylvania. Scholarships available to State System universities each year on a rotating basis as determined by the Office of the Chancellor. These awards are based upon financial need. Student records are reviewed for this award via their admission materials; no scholarship application is required. When available, award usually offered prior to April 1.

Dana S. Still Scholarships: One-time scholarships, awarded in honor of the former professor of English, provost, interim president, and chairman of the Council of Trustees, are presented annually to incoming freshman students. Eligibility is based upon academics and financial need. Student records are reviewed for this scholarship upon receipt of their admission materials; no scholarship application is required. Awards offered prior to March 1.

Marjorie Tippin Leadership Scholarships: These scholarships are available to freshmen on a one-time basis. Past winners have a minimum SAT total score of 1200 (critical reasoning and mathematics component)

and are in the upper 10 percent of his or her high school graduating class. Financial need is considered. Student records are reviewed upon receipt of their admission materials; no scholarship application required. All awards offered prior to March 1.

Marjorie Tippin Presidential Scholarship: Past winners have a minimum SAT total score of 1300 (critical reasoning and mathematics component) and are in the upper two percent of his or her high school graduating class. The award is renewable for up to four school years. Incoming students are reviewed for this scholarship upon receipt of Admissions materials. No scholarship application required. Awards offered prior to February 1.

Dr. Lou and Marge (Sherry) Tripodi Scholarship: Established by Dr. Lou and Marge Tripodi as an annual scholarship awarded to an incoming freshman student graduating from Redbank Valley, Clarion-Limestone, or Clarion High School. To be automatically considered, student must have a minimum SAT total score of 900 or above (critical reasoning and mathematics component), graduate in the top 40 percent of high school class, and show financial need as determined by the FAFSA form and reviewed by the scholarship committee.

Anna and Walter Weaver Leadership Scholarship: This scholarship established by Paul and Mary Weaver to honor Paul's parents. Past recipients had a minimum SAT total score of 1200 (critical reasoning and mathematics component) and graduated in the upper 10 percent of his or her high school senior class. Students are reviewed for this scholarship upon receipt of their admission materials; no scholarship application is required. Preference will be given to students from Clarion County. Award offered prior to March 1.

Wein Scholarship: This scholarship is awarded on the basis of academic achievement to graduating seniors of Clarion Area High School. Further information as well as instructions for completing the application process may be obtained from Mr. Stephen Kosak, Box 374, Oil City, PA 16301.

Frank and Clara Williams Scholarship: Scholarships, not limited in number and not specified in amount, are granted to Venango County residents. Eligible students must be full-time freshmen or sophomores. Selection is made based upon financial need and academic record. Instructions for completing the application process may be obtained from Mr. Stephen Kosak, Box 374, Oil City, PA 16301. Deadline for submission of application is April 15.

College of Arts & Sciences Scholarships

Oleta B. Amsler Scholarship: Mrs. Amsler established this award to recognize a freshman Liberal Arts/Studies major who displays eclectic activities and interests during his/her high school years. Award is renewable as long as student winner maintains a grade-point average of 3.0 at Clarion and remains a Liberal Studies major. This scholarship is available at least once every four years. Students are automatically considered via their admissions materials when the scholarship is available.

Derrick Scholarship: This endowed scholarship has been established by The Derrick Publishing Company in order to encourage an interest in journalism and reward a promising Clarion University student. The scholarship is available to a sophomore, junior, or senior who is a permanent resident of Clarion, Forest, or Venango County and is enrolled in the College of Arts and Sciences. An interest in journalism will be taken into consideration when awarding this scholarship. Preference will be given to students who have been carriers of the Derrick. It is possible the scholarship may be renewed in subsequent years. Contact the office of the dean, College of Arts and Sciences at 814-393-2225 for further information. Application Deadline date is March 29.

Joanne W. Haskell Scholars Program Endowment: Established by Joanne Gwen (Wagner) Haskell, friend of Clarion University, and designated to fund scholarships in the field of humanities. The fund will make awards to students who plan to travel abroad to pursue studies in the humanities. Scholarships are intended for students who take courses in a foreign country, supplement existing research projects or creative and civic activities. Applicants must be juniors or seniors in good academic standing. Selection will be made from application and accompanying proposal. Contact the Office of the Provost for further information.

Nancy Shaw McKee Scholarship: This endowed scholarship will provide one annual scholarship to an undergraduate student (of junior standing or higher) majoring in any area of the arts and sciences. The

recipient will be selected on the basis of academic performance and financial need. Contact the dean of the College of Art and Sciences at 814-393-2225 for more information. Students need to be first nominated by faculty to be considered for this scholarship. Nominated students will need to submit a "Goals Statement." Deadline date for nominees is March 29.

Anthropology, Geography, and Earth Science

Tracy V. Buckwalter Memorial: This endowed scholarship was established in memory of former faculty member Dr. Tracy V. Buckwalter. This award will be given annually to a senior student who best displays a vital interest and outstanding scholarship in the field of geology. For additional information contact the Department of Anthropology, Geography, and Earth Science at 814-393-2317.

William and Elizabeth Hart Scholarship: This scholarship established to honor former chemistry professor Dr. William Hart. Currently, two scholarships are awarded and can be used to pay for tuition, room, board, and some miscellaneous fees, including books. Applicants must major in mathematics, physics, chemistry, geography/earth science, or biology and have completed 45 credits. They must have a QPA of 3.0 overall and 3.3 in mathematics and science course work. Selection shall be made by competitive examination, testing the student's ability in mathematics and English. Application deadline is late March. Contact the Scholarship Committee chair, Dr. Ben Freed, at 814-393-2592 for additional information.

The Ruth Bleakney Montgomery Science/Mathematics Scholarship: This endowed scholarship, in memory of Ruth Bleakney Montgomery, is given annually to science and mathematics majors. Preference is given to students from Armstrong County; students from Clarion and Jefferson counties are also eligible. Sophomores, juniors, and seniors are eligible, with preference given to sophomores. Contact the dean's office, College of Arts and Science at 814-393-2328 for further information by April 1.

Art

Clarence and Janet Lesser Scholarships: The Lesser Trust Fund provides scholarships to successful students in the areas of theatre, art, music, and athletics. High school students who have exhibited high interest and achievement in these areas are urged to apply. Application for consideration needs to be submitted prior to April 1. Selection is based upon talent, academic promise, and leadership potential. Awards may be continued in subsequent years at the discretion of the selection committee, subject to the availability of funds. Contact the Financial Aid Office at 814-393-2315 for additional information.

Biology

Biology Department Fund Scholarships: Two scholarships are awarded to biology or medical technology students who are currently juniors. Students should apply in the spring to the Biology Department Scholarship Committee. The Scholarship Committee makes a recommendation to the department based upon academic record, contribution to the department and/or university, and participation in extracurricular activities. Scholarships are paid directly onto the student's billing account. Application deadline date is April 4.

Jack N. Blaine Scholarship Endowment: Created by the board of directors of the Clarion University Foundation, Inc. in honor of Jack Blaine. Mr. Blaine, a Clarion alum ('66) and member of the physical science faculty ('66-'84, '92-'97), was the first director of the Donald D. Peirce Planetarium, director of the university foundation. ('79-'92), and the university's first vice president for development and institutional advancement ('84-'92). The endowment will fund scholarships for students in the sciences.

Ecology Scholarship: A scholarship to be awarded to an undergraduate student who is enrolled in a Clarion University field course offered through the Pymatuning Laboratory of Ecology. Recipient will be selected based on academic excellence, service to the department, university, and community, and evidence of a scholarly commitment to ecology and environmental biology. Applicants are required to submit a current vita/resume, an unofficial transcript, and complete a 2-page essay summarizing university and community service, research activities, and career goals. Applicants must be bachelor of science in biology or bachelor of science in environmental biology majors.

Outstanding Biology Scholars Award: These scholarships are awarded annually to freshman biology, secondary-education-biology, molecular biology, environmental biology or medical technology majors. To be considered, students need SAT total scores higher than 1200 (critical reasoning and math components), and class rank in the top 20 percent. The awards are continued if requirements are met each year. Contact the Biology Department at (814) 393-2273 for additional information. Deadline date is February 15.

William and Elizabeth Hart Scholarship: Established to honor former chemistry professor Dr. William Hart. One or more scholarships are awarded and can be used to pay for tuition, room, board, and some miscellaneous fees, including books. Applicants must major in mathematics, physics, chemistry, geography/earth science, or biology and have completed 45 credits. They must have a QPA of 3.0 overall and 3.3 in mathematics and science course work. Selection shall be made by competitive examination, testing the student's ability in mathematics and English. Application deadline is late March. Contact the Scholarship Committee chair, Dr. Ben Freed, at 814-393-2592 for information.

The Ruth Bleakney Montgomery Science/Mathematics Scholarship: This endowed scholarship, in memory of Ruth Bleakney Montgomery, is given annually to science and mathematics majors. Preference is given to students from Armstrong County; students from Clarion and Jefferson counties are also eligible. Sophomores, juniors, and seniors are eligible, with preference given to sophomores. Contact the dean's office, College of Arts and Science at 814-393-2328, by April 1, for further information.

Kim Rutherford Memorial Scholarship: A scholarship in memory of a former faculty member is awarded each year to freshman or sophomore major in any of the biology degree programs, except medical technology. Recipient is selected upon the following criteria: academic excellence, participation in extracurricular activities, service to the Biology Department and Clarion University, financial need, and the student's goals in biology. Application should be made in the spring to the Biology Department. Final selection made by department's academic committee. Application deadline date is April 4.

Trout Unlimited Conservation Scholarship: This scholarship has been established with the foundation through the sponsorship of the Iron Furnace, the Oil Creek, and the Allegheny Mountain Chapter of Trout Unlimited. It provides a \$1,000 annual award to support the education of a senior student who displays a keen interest in conservation of natural aquatic resources, especially cold-water. The award will be based first on a written statement of the student's conservation goals and second their academic record. For additional information contact Dr. Andy Turner Department of Biology room 235 Peirce Hall. Application deadline is April 22.

Chemistry

Jack N. Blaine Scholarship Endowment: Created by the board of directors of the Clarion University Foundation, Inc. in honor of Jack Blaine. Mr. Blaine, a Clarion alum ('66) and member of the physical science faculty ('66-'84, '92-'97), was the first director of the Donald D. Peirce Planetarium, director of the university foundation, ('79-'92), and the university's first vice president for development and institutional advancement ('84-'92). The endowment will fund scholarships for students in the sciences.

Clarion University Department of Chemistry Scholarships: These scholarships are awarded to chemistry majors and are based upon academic achievement in chemistry. Contact the Chemistry Department chair at 814-393-2281.

Clarion University Department of Chemistry Commemorative Scholarship: This scholarship is awarded to a chemistry major and based upon academic achievement in chemistry. Contact the Chemistry Department chair at 814-393-2281.

William and Elizabeth Hart Scholarship: This scholarship established to honor former chemistry professor Dr. William Hart. One or more scholarships are awarded and can be used to pay for tuition, room, board, and some miscellaneous fees, including books. Applicants must major in mathematics, physics, chemistry, geography/earth science, or biology and have completed 45 credits. They must have a QPA of 3.0 overall and 3.3 in mathematics and science course work. Selection shall be made by competitive examination, testing the student's ability in mathematics and English. Application deadline is late March. Contact

the Scholarship Committee chair, Dr. Ben Freed, at 814-393-2592 for additional information.

Heagy Memorial Scholarship: This scholarship is made possible by a generous contribution from the family of former chemistry student, John Heagy. Awarded annually to Chemistry major of at least sophomore standing. The candidate is selected by the Chemistry Department on the basis of academic record. The scholarship is paid by the foundation to the student's billing account. For more details, contact the Chemistry Department chair at 814-393-2281.

The Ruth Bleakney Montgomery Science/Mathematics Scholarship: This endowed scholarship, in memory of Ruth Bleakney Montgomery, is given annually to science and mathematics majors. Preference is given to students from Armstrong County; students from Clarion and Jefferson counties are also eligible. Sophomores, juniors, and seniors are eligible, with preference given to sophomores. Contact the dean's office, College of Arts and Science at 814-393-2328, by April 1, for further information.

Computer Information Science

Elizabeth Ross Association of Information Technology Professionals Scholarship: Annual scholarships are awarded to AITP members majoring in Information Systems (IS). Selection is based on academic record and contribution to AITP. Additional information can be obtained from the Computer Information Science Department at 814-393-2442.

George R. Lewis Scholarships: Scholarships are made available to deserving students majoring in computer science. The scholarship is renewable through four years, provided that student meets the required academic standards. Additional information can be obtained from the Computer Information Science Department at 814-393-2442.

Ronald B. Lucas Scholarship: Established by Ronald, Class of 1982, and Debra Lucas for deserving students majoring in either computer information science or business. To be considered, student must demonstrate financial need and file the Free Application for Financial Aid (FAFSA) and must maintain a 3.0 or higher grade-point average in high school with plans to attend Clarion University. First preference will be given to a student in majoring in computer information science. Next preference will be a student majoring in administrative science, finance, or accountancy. Eligible students will be notified.

Computer Information Science Department Foundation Scholarship: This scholarship is awarded annually to a computer science or information systems major based on academic excellence and participation in university and community activities. Additional information can be obtained from the Computer Information Science Department at 814-393-2442.

English

Joseph F. and Susannah Centorcelli Scholarship: This scholarship fund established by Mr. Joseph F. Centorcelli in memory of his wife, through the Clarion University Foundation. One recipient is selected each year. Applicants must be an English major of at least sophomore standing, have a 2.5 QPA and be residents of Clarion, Jefferson, or Venango County. Candidates must submit a narrative in which they discuss academic interests and future goals. Also they are urged to submit samples of critical or creative writing. Application should be made in the Spring Semester to the chair, English Department at 814-393-2482.

English Alumni Endowed Junior Scholarships: Two scholarships are awarded annually to second-semester junior English majors for their senior year of study. Student applicants must submit either a recent sample of critical writing or a recent sample of creative writing. Final selection is made by department members. Contact the English Department for further information.

Florence McLaughlin Scholarship: This scholarship established by Mr. David C. Smith, Class of 1964, in honor of Miss Florence McLaughlin who was an English teacher and role model for many students. The scholarship is intended for a Mount Lebanon High School student planning to attend Clarion University. First preference is an incoming English major from Mount Lebanon. Second preference is a secondary education major. Third preference is an elementary education major. For consideration, incoming freshmen need a minimum SAT total score of 1150 (critical reasoning and math components) and should graduate in the top 15 percent

of senior class. Student records are automatically reviewed for this award via their admission materials. Special consideration of those students accepted into Clarion's Honors Program.

Gilbert Neiman Scholarships: Established in memory of Dr. Gilbert Neiman, former professor of English at Clarion University. Four awards are made each year, one each to a junior, sophomore, and two freshman who major in English or secondary education English. Freshman applicants must submit a creative writing or critical essay, recommendation from a senior English teacher, and a high school transcript. Scholarship application should be submitted after the student has been accepted at Clarion with the English Department at 814-393-2482.

Nemmer Award for Outstanding Graduating English Major: This award is given annually to one graduating senior English major. There is no application process. Nomination of candidates for the award and selection are made by department members each spring.

History

History Department Foundation Scholarship: To be considered, students must be sophomore or junior standing at Clarion University. Criteria for selection include academic excellence and service to the History department. Contact the chair of the History department at 814-393-2546.

John Francis Salvucci Scholarship: Established by Mr. and Mrs. Gene Salvucci in memory of their son, John, who graduated from Clarion with a History degree in 1981. Incoming freshmen enrolled in the Secondary Education/Social Studies program will be given first consideration with second preference given to incoming freshmen that have declared a History major. To be considered, students must have a minimum SAT total score of 1100 (critical reasoning and math components) and be in the upper two-fifths of his or her high school graduating class. Student records are reviewed for this scholarship upon receipt of their admissions materials; no scholarship application is required.

Mass Media Arts and Journalism and Communication Studies

James J. Canelos Scholarship: Annually a scholarship in memory of alumnus J.J. Canelos is offered to a junior mass media arts and journalism major. Eligibility requires a minimum QPA of 3.4. Final selection is made by department members on the basis of academic record, contribution to the Mass Media Arts and Journalism Department and the university, participation in extracurricular activities, and financial need. Additional information can be obtained from the Mass Media Arts and Journalism Department chair at 814-393-2245.

Clarion University Debate Team-Scholarship Opportunities: Clarion's Debate team is proud to be able to provide scholarship opportunities for members of the team. Scholarships are available for both returning and incoming students. Awards are based on debate success and take academic and need-based factors into account. For more detailed information, contact Jim Lyle, director of the Speech and Debate program.

James H. Cole Scholarship: Annually, a scholarship in honor of James D. Cole, former dean of the School of Communication, is directed toward second semester undergraduates majoring in mass media arts and journalism with no fewer than 15 credits and no more than 32 credits. Eligibility also requires a minimum of a 3.0 QPA. Final selection made by department members on the basis of academic achievement, involvement in the Mass Media Arts and Journalism Department and community service.

Mass Media Arts and Journalism Department Foundation Scholarship: This scholarship awarded annually by department members on the basis of academic achievement, involvement in the Mass Media Arts and Journalism Department and community service. Eligibility also requires a minimum of a 3.0 QPA. Additional information can be obtained from the Mass Media Arts and Journalism Department chair at 814-393-2245.

Mathematics

Calculus Scholarship: This scholarship is for a declared mathematics major who achieves the highest score on a standardized calculus test. Students must be recommended by faculty members to take the test. The award is available annually through the Mathematics Department Endowment Fund. For further information contact the chair of the Mathematics Department at 814-393-2592.

Tom A. Carnahan and Mel A. Mitchell Secondary Education/Mathematics Scholarship: This endowed scholarship was established to benefit Clarion students enrolled in the secondary education/mathematics degree program. The award will be made to one or two full-time students who have been admitted to the Teacher's Certification Program and who have achieved a minimum 3.0 QPA in completed mathematics courses. The Office of the Dean of Education will be responsible for mailing applications to all eligible students. In addition to submitting an application, students are required to provide two letters of recommendation. Students are eligible to apply for the scholarships for a second year.

William and Elizabeth Hart Scholarship: This scholarship established to honor former chemistry professor Dr. William Hart. One or more scholarships are awarded and can be used to pay for tuition, room, board, and some miscellaneous fees, including books. Applicants must major in mathematics, physics, chemistry, geography/earth science, or biology and have completed 45 credits. They must have a QPA of 3.0 overall and 3.3 in mathematics and science course work. Selection shall be made by competitive examination, testing the student's ability in mathematics and English. Application deadline is late February. Contact the Scholarship Committee chair, Dr. Ben Freed, at 814-393-2592 for additional information.

Marlin and Cleva Hartman Scholarship: Established by Marlin Hartman, Class of 1959, and Cleva Haight Hartman, Class of 1959, for an incoming freshman that is a son or daughter of a United States veteran. Financial need is also considered. First preference is for a Mathematics or Mathematics Education major. Second preference is for an Elementary Education major. Strength of academic credential is also influential. Submit DD214 along with letter requesting to be considered to the Scholarship Administrator in the Clarion University Admissions Office. Scholarship awarded by March 1.

John F. Kuhn Mathematics Scholarship: This scholarship fund established by Dr. and Mrs. Stephen Gendler, with the support of the entire Mathematics Department, to honor the memory of Provost Kuhn by providing scholarships to attract students from underrepresented populations to study mathematics at Clarion University. Candidates must have applied for admission to Clarion University with the intent to be a full time undergraduate student. They must be a member of an under represented class and planning to major in mathematics or mathematics education. QPA, class rank, SAT or ACT scores and recommendations from mathematics teachers measured by the admissions file.

Mathematics Freshman Scholarship: This scholarship is for incoming freshman mathematics major. To be considered, students must have outstanding SAT math score and excellent high school grades. For more information contact the Mathematics Department Chair at 814-393-2592.

Fred L. and June McCall Burns & Family Scholarship: This sophomore year scholarship established by Dr. Max H. Burns in honor of his parents Fred and June McCall Burns. Current student must be seeking a degree in Music, Drama or Mathematics or in the Education fields of Music, Drama or Mathematics, and possess excellent grades at Clarion. Contact the Scholarship Administrator in the Admissions Office for additional information.

The Ruth Bleakney Montgomery Science/Mathematics Scholarship: This endowed scholarship, in memory of Ruth Bleakney Montgomery, is given annually to science and mathematics majors. Preference is given to students from Armstrong County; students from Clarion and Jefferson counties are also eligible. Sophomores, juniors, and seniors are eligible, with preference given to sophomores. Contact the dean's office, College of Arts and Science at 814-393-2328, by April 1, for further information.

Renewable Mathematics Scholarship: Awarded annually to an incoming freshman majoring in mathematics or mathematics education. Applicants must score at least 1150 (critical reasoning and math components) on the SAT, with at least 600 on the mathematics portion, and be ranked in the top fifth of their class. The scholarship is renewable for four years if the recipient remains a mathematics or mathematics education major, maintains at least a 3.30 QPA in mathematics, and maintains at least a 3.00 QPA overall.

Helen and Lawrence Smith Scholarships: These scholarships are made possible by an endowment established by Mrs. Helen Smith in memory of her husband. Applications for awards considered in the Spring semester for a Fall award. In the Fall of the award, applicants must be full-time students at the junior or senior level majoring in library sci-

ence or mathematics, must have completed at least 64 credits, and have a QPA of 3.0 or higher. The scholarships are available for a second year, provided students maintain the academic standards required. Contact the Chair of Mathematics at 814-393-2592.

Modern Languages

Rafael Diaz y Diaz Scholarship: This award is presented annually to the most outstanding junior or senior who is majoring in Spanish and plans to study either in Spain and/or an Hispanic country. It is based upon academic excellence and contribution to the Spanish section of the Modern Languages Department. Selection is made by the Spanish Scholarship Committee. For further details contact the Modern Languages Department at 814-393-2290.

Irmgard Hegewald Scholarship Fund: The Hegewald Scholarship Fund was established through a gift from the estate of her mother, Gertrude Schulz, to honor the former German faculty member. The purpose of the fund is to provide scholarships for students studying German. Academic achievement in German and financial need as indicated by the FAFSA are factors considered. For further details contact Eleanor Horst in the Modern Languages Department.

Megan Lhota-Calderaro Memorial Scholarship: This scholarship was established by Jim Calderaro Jr. in honor of his wife, Megan Calderaro, Class of 1973, who passed away March 15, 2003. Megan was a Spanish Education major at Clarion. She always spoke highly of her experience at Clarion and Megan was very proud of her Spanish Education degree. She was a high-level manager for Bell Atlantic/Verizon Inc. for twenty years. She utilized the Spanish portion of her education to help Bell Atlantic/Verizon conduct seminars in different countries. Megan was a very giving, selfless person. This scholarship is a way of keeping her memory alive. It is intended to honor her giving nature for many years to come. Eligible candidates for consideration must be an incoming freshman Spanish Education major with a minimum 3.0 grade-point average and a minimum SAT score total of 1000 (critical reasoning and mathematics component). All applicants for admission who meet the specific criteria will automatically be considered for this scholarship award.

Judith McCrary Scholarships: These awards are given to one French major, one Spanish major, and one German minor each year based on quality of academic work. For further details contact the Modern Languages Department at 814-393-2290.

Music

Sarah Beels Dunikoski Memorial Scholarship: Established through the estate of Kenneth & Katherine Beels in memory of their daughter, Sarah. To be considered, incoming student must be a Music Education major with outstanding grades and SAT total score. All Music applicants automatically considered between November and March each recruiting year. No scholarship application form required. Please make sure the Admissions Office has updated grades and SAT/ACT scores.

Fred L. and June McCall Burns & Family Scholarship: This sophomore year scholarship established by Dr. Max H. Burns in honor of his parents Fred and June McCall Burns. Current student must be seeking a degree in Music, Drama or Mathematics or in the Education fields of Music, Drama or Mathematics, and possess excellent grades at Clarion. Contact the Scholarship Administrator in the Admissions Office for additional information.

Clarence and Janet Lesser Scholarships: The Lesser Trust Fund provides scholarships to successful students in the areas of theatre, art, music, and athletics. High school students who have exhibited high interest and achievement in these areas are urged to apply. Application for consideration needs to be submitted prior to April 1. Selection is based upon talent, academic promise, and leadership potential. Awards may be continued in subsequent years at the discretion of the selection committee, subject to the availability of funds. Contact the Financial Aid Office at 814-393-2315 for additional information.

Dr. John A. Mooney Scholarship: Presented to a music major of at least sophomore standing. Criteria for selection are based primarily upon musical talent and secondarily upon financial need and service to the department. Candidates will be required to demonstrate musical talent via live audition. This endowed scholarship will be applied to the recipient's educational fees. Contact the Department of Music at 814-393-2287 for additional information.

Presser Undergraduate Scholarship Award: This scholarship sponsored by the Presser Foundation of Bryn Mawr, Pa. It is awarded annually to the outstanding senior music major. The recipient is selected through music faculty nominations.

Mary L. Seifert Music Scholarship: Established by Clarion alumna Mary L. Seifert. Its purpose is to annually reward academic achievement, department and university service, and the musical contributions of a junior or senior music major. For additional information contact the Department of Music at 814-393-2287.

Sabina Mooney Seifert Scholarship: This scholarship established in honor of Mrs. Seifert, class of 1909, by her daughter Mary L. Seifert. It is available as a one-year award for freshman music majors. The award criteria are based primarily upon academic achievement. To be considered, the student must have a QPA of 3.0 (on a 4.0 scale) or higher and must rank in top one-fifth of his or her Western Pennsylvania high school graduating class. Contact the Department of Music at 814-393-2287 for additional information.

Slanco-Grunenwald Scholarship: Established by Janice Slanco-Grunenwald to honor and celebrate the commitment of her parents, George and Ann Slanco, to her musical education, and the constant support and encouragement of her husband, Joseph Grunenwald, to her professional life as a pastoral musician, high school choral director, private instructor, and collaborative pianist. The award is for an incoming freshman music major with a 3.0 minimum grade-point average, who is a leader in his/her school or church musical program and wishes to bring that leadership and enthusiasm to Clarion University's music program. Interested students who wish to be considered for the award may request an application from the chair of the Music Department at 814-393-2287.

Linda Marie Trunzo Memorial Scholarship: These awards, presented in memory of Ms. Trunzo, a Clarion alumna, have been designated for incoming freshman music majors. The recipients are selected by a scholarship committee on the basis of academic achievement and an interview/audition to demonstrate talent in music. Recipients are named "Trunzo Scholars." Contact the Department of Music at 814-393-2287 for additional information.

Physics

Jack N. Blaine Scholarship Endowment: This scholarship was created by the Board of Directors of the Clarion University Foundation, Inc. in honor of Jack Blaine. Mr. Blaine, a Clarion alum ('66) and member of the physical science faculty ('66-'84, '92-'97), was the first director of the Donald D. Peirce Planetarium, director of the university foundation, ('79-'92), and the university's first vice president for development and institutional advancement ('84-'92). The endowment will fund scholarships for students in the sciences.

William and Elizabeth Hart Scholarship: This scholarship established to honor former chemistry professor Dr. William Hart. One or more scholarships are awarded and can be used to pay for tuition, room, board, and some miscellaneous fees, including books. Applicants must major in mathematics, physics, chemistry, geography/earth science, or biology and have completed 45 credits. They must have a QPA of 3.0 overall and 3.3 in mathematics and science course work. Selection shall be made by competitive examination, testing the student's ability in mathematics and English. Application deadline is late February. Contact the Scholarship Committee chair, Dr. Ben Freed, at 814-393-2592 for additional information.

Mary Jane Collins Meenan Scholarship: This scholarship established through the estate of M. Clyde Meenan in memory of his wife, Mary Jane. Awarded annually to a deserving student in the cooperating Engineering program at Clarion University. Criteria includes overall 3.0 QPA, carry a B average in mathematics, physics and chemistry courses, provide a recommendation from a science or mathematics instructor, and have financial need. Contact the Chair of Physics for further information. Award made at the end of March.

The Ruth Bleakney Montgomery Science/Mathematics Scholarship: This endowed scholarship, in memory of Ruth Bleakney Montgomery, is given annually to science and mathematics majors. Preference is given to students from Armstrong County; students from Clarion and Jefferson counties are also eligible. Sophomores, juniors, and seniors are eligible, with preference given to sophomores. Contact the dean's office, College of Arts and Science at 814-393-2328, by April 1, for further information.

Paul Shank Award for Excellence in Physics: Two awards are made annually in honor of Dr. Shank, a former physics professor. The scholarships are awarded based on grades in physics, mathematics, and computer science and are presented to junior physics majors. In addition, recipients' names are inscribed on a plaque in the department office. See the Physics Department chair for further details or call 814-393-2571.

Karl and Inge Sandler Memorial Scholarship: This scholarship established in the memory of Karl and Inge Sandler for students with the desire and will to learn the world of physics. Mr. Sandler had an impressive career that included making major contributions to the development of US manned space capabilities. Mr. Sandler retired from NASA's Kennedy Space Center in 1974 as Director of Instrumentation Systems. Mrs. Sandler, a physics graduate in her own right, worked for the US Army. One of her assignments was to compute flight trajectories. To be considered for this scholarship, you must be an incoming freshmen student majoring in Physics or Secondary Ed Physics and demonstrate financial need via the FAFSA form. Upon admissions acceptance, you are automatically considered for this award.

Outstanding First-Year Physics Award: This endowed scholarship was established by friends of the physics department to honor emeritus faculty. It is given annually to the most outstanding physics major enrolled in the introductory physics sequence (PH 258/PH 268 and PH 259/PH 269). The award is based on academic achievement within these courses as well as evidence of scholarly commitment to physics. Recipients' names are inscribed on a plaque in the department office. See the Physics Department chair for further details or call 814-393-2571.

Psychology

Eric S. Knotick Memorial Scholarship: This endowed scholarship in memory of Mr. Knotick, a Clarion student, is given annually to a psychology major. The award is based on academic accomplishment, service to the university, Psychology Department, and community. Students must have completed at least 90 hours by the end of current spring semester with an overall QPA of 2.50. Student must also have completed at least 12 credits in Psychology. Contact the Psychology Department chair at 814-393-2295 for additional information.

Dr. Iseli K. Krauss Psychology Scholarship: This scholarship established by Dr. Krauss, a member of Clarion's Psychology department since 1988. The scholarship will be awarded to a current Clarion University sophomore who has a minimum SAT total score of 1050 (critical reasoning and math components) and a 3.2 QPA. The award will be paid during the student's junior year and can be renewed for the senior year. For additional information, contact the chairperson of the Psychology Department.

Psychology Department Endowed Scholarship: To be eligible a student must have completed 57 hours by the end of the current spring semester with an overall QPA of 3.0. Students must also have completed 15 hours in Psychology, at least 9 of which must have been earned at Clarion University. Research, departmental service, and other contributions to the field are strongly considered. Contact the Psychology Department secretary for further information.

Speech Communication

Dr. Mary R. Hardwick Scholarship: Created to honor Dr. Mary R. Hardwick, retired speech communication & theatre professor, and her career as a gifted artist and dedicated educator. The scholarship is open to students majoring in speech communication (and are not graduating seniors) with a QPA of 3.0 or higher who have been active within the department. Contact the chair of Speech Communication at 814-393-2284.

Theatre

Fred L. and June McCall Burns & Family Scholarship: This sophomore year scholarship established by Dr. Max H. Burns in honor of his parents Fred and June McCall Burns. Current student must be seeking a degree in Music, Drama or Mathematics or in the Education fields of Music, Drama or Mathematics, and possess excellent grades at Clarion. Contact the Scholarship Administrator in the Admissions Office for additional information.

Clarence and Janet Lesser Scholarships: The Lesser Trust Fund provides scholarships to successful students in the areas of theatre, art, music, and athletics. High school students who have exhibited high

interest and achievement in these areas are urged to apply. Application for consideration needs to be submitted prior to April 1. Selection is based upon talent, academic promise, and leadership potential. Awards may be continued in subsequent years at the discretion of the selection committee, subject to the availability of funds. Contact the Financial Aid Office at 814-393-2315 for additional information.

Cheri Aharrah Reid Memorial Scholarship: This endowed scholarship established by Dr. Ernest ('49) and Mrs. Peggy (Berringer '49) Aharrah in memory of their daughter. Its purpose is to assist theatre students who have completed at least one semester. The recipient will be selected on the basis of high school and/or community Theatre activities deemed worthy of merit. Contact the chair of the Department of Theatre for additional information at 814-393-2648.

Theatre Scholarships: Awards are available to students who participate in the University Theatre. Criteria for selection are aptitude, dependability, dedication, talent, and performance promise. Students selected by the theatre staff. The number and amount may vary from year to year. For additional information, contact the director of theatre at 814-393-2648.

College of Business Administration Scholarships

E. Wilson Amsler Endowed Scholarship: An endowed scholarship established in recognition of E. Wilson Amsler and his many contributions to the community and the university. The scholarship will permit the College of Business Administration to recruit and/or support an outstanding business major. Applications and nominations are accepted from any junior enrolled as a full-time student in the College of Business Administration. Applicants should have a QPA of 3.5 or better with at least 30 credit hours completed at Clarion University. Students must show active involvement in the student organizations of the College of Business Administration and Clarion University. Contact the chair of the College of Business Administration Scholarship Committee at 814-393-2600 for additional information. Applications must be completed and returned by March 22.

Donald E. & Bernadette Hugus Crooks Family Scholarship: Established by Bernadette (Hugus) and Donald Crooks for an incoming freshman who demonstrates strong work ethic and desire to excel. Candidates must be enrolled in the College of Business Administration with preference given to Marketing majors. The scholarship award is renewable for up to four years if the candidate maintains the required academic criteria while majoring in a program of the College of Business Administration. Student records are reviewed for this award via their admission materials.

Edward G. Kriebel Family Scholarship: The purpose of this scholarship is to attract students who demonstrate entrepreneurial skills, have the dedication to quality and hard work demonstrated by the Kriebel family and who demonstrate need not met by federal or state aid. First preference is given to an AC Valley or Union High School graduate, second preference to a graduate of other Clarion County high schools and last preference to other surrounding area high schools. This scholarship award is renewable for up to four years if the candidates maintain the required academic criteria while majoring in a program of the College of Business Administration. Student records are reviewed for this award via their admission materials. FAFSA must be on file.

The Kroh Family Business Scholarship: Established by D. Scott Kroh, '74 and his wife, Pamela, to benefit a student in the College of Business Administration at Clarion University. The scholarship is intended for upper division students who maintain a strong academic performance in preparation for a successful career in a field of business.

Charles P. Leach, Sr. Scholarship: This endowed scholarship is awarded annually to an outstanding business student. Eligible students must be of at least sophomore standing (30 or more credits) and are selected on the basis of a QPA of 3.5 or better, contribution to the College of Business Administration and the university, and participation in extracurricular activities such as professional organizations. Application is made to the chair of the College of Business Administration Scholarship Committee at 814-393-2600 during the Spring Semester. Applications must be completed and returned by March 22.

Ronald B. Lucas Scholarship: Established by Ronald, Class of 1982, and Debra Lucas for deserving students majoring in either computer information science or business. To be considered, student must demonstrate financial need and file the Free Application for Financial Aid (FAFSA) and must maintain a 3.0 or higher grade-point average in high school with plans to attend Clarion University. First preference will be given to a student in majoring in computer information science. Next preference will be a student majoring in administrative science, finance, or accountancy. Eligible students will be notified.

Accountancy

Accountancy Department Endowed Scholarship: Annually, two scholarship awards by the Accountancy Department's Endowment Fund Committee. Criteria used in selecting current students as recipients include senior standing, academic record, classroom performance, and participation in university activities. For additional information contact the Accountancy Department chair at (814) 393-2628.

William and Olive Barnes Scholarship: This scholarship established by Greg Barnes, professor of Accountancy, in honor of his parents, William and Olive Barnes, for an incoming freshman. Applicants must have a minimum SAT total score of 1100 (critical reasoning and math components), and rank in the upper 10 percent of their high school class. First preference will be given to accounting majors then other undergraduate business majors. Contact the Office of Admissions at 814-393-2306 for additional information. New students are automatically considered via their admissions materials. Award offered prior to February 1.

Gary L. Merz Memorial Scholarship: An endowed scholarship established in the memory and recognition of accounting professor Gary L. Merz for his many contributions to the university, Accountancy Department, students, and community. The annual scholarship will be awarded to a senior accounting major based upon academic performance. For additional information contact the Accountancy Department chair at 814-393-2628.

The Ruth N. Pici Memorial Scholarship: This scholarship was established in May 2004 by Mr. Frank A. Pici, Clarion Class of 1977, in honor of his mother, Ruth. Ruth was a strong advocate of higher education. Like many parents of Clarion students, she did not attend college. However, recognizing the value of higher education and the practical value of an accounting background, she worked hard to provide the environment and resources for her son and her other children to better themselves with college educations. Each year, the scholarship will be awarded to a freshman accounting major from Southwestern Pennsylvania, with preference given to graduates of the East Allegheny, Elizabeth Forward, McKeesport, and Gateway School Districts in Allegheny County. To be automatically considered, student must rank in the upper 40 percent of high school class and have a SAT total score of 1000 (critical reasoning and math components) or higher. Scholarship is awarded March 15 each year.

Charles J. Pineno Accounting Scholarship: Established to honor Dr. Charles Pineno, Department of Accountancy. Candidates must be senior Accounting majors. The scholarship awarded on the basis of academic performance and service to the department. For further information contact the Accountancy Department at 814-393-2628.

Harry Joseph Smith Memorial Scholarship: The scholarship established by David C. Smith '64 in memory of his father, Harry, to provide an annual scholarship to an Accounting major. Applicant must be a full time undergraduate student and must demonstrate financial need as per FAFSA which must be on file by the application date. Contact the Accountancy department at 814-393-2628 for additional information.

Administrative Science/Management

Administrative Science Endowed Scholarship: Annual scholarship awarded by the Administrative Science Department's Scholarship Committee. Criteria used in selecting current students as recipients include academic record, classroom performance and participation in university activities. Funding dependent upon monetary level of endowment fund.

Dr. Leonard & Sally Ann Ackerman Scholarship: Established by Sally Ann Ackerman. To be considered the criteria includes a declared management or industrial relations major. Awards are available to sophomores, juniors, and seniors. The student should have completed at least 30 credits at Clarion University. Minimum overall QPA of 3.25 is required in all Clarion courses and in Clarion business courses. Contact the department of Administrative Services for further information.

Economics

Enid Dennis Memorial Scholarship: This scholarship, honoring Dr. Enid Dennis, former professor of economics, is available to junior and senior economics majors. The purpose of the award is to reward academic accomplishments and provide incentives to students in the field of economics. Contact the chair of the Economics Department at 814-393-2627 for additional information. Application deadline date is March 22.

Economics Department Scholarship: Awarded based upon a high degree of academic achievement along with a significant level of leadership in college and/or community activities. Contact the chair of the Economics Department at 814-393-2627.

International Business Scholarship: Awarded to students majoring in International Business to support the foreign experience requirement. Awarded based upon a high degree of academic achievement along with a significant level of leadership in college and/or community activities. Contact the chair of the Economics Department at 814-393-2627.

Finance

H. G. Burns Center for Finance and Insurance Scholarship: The Burns Center awards scholarships to incoming students interested in a career in insurance, finance, or real estate. To be considered, candidates must have a minimum SAT total score of 1100 (critical reasoning and math components), be in the top 40 percent of their class, and have demonstrated effective extracurricular participation. Recipients can continue to receive the scholarships throughout their four years provided that they maintain a QPA of 3.25. Student records are reviewed for this award via their admission materials; no scholarship application is required. Additional information may be obtained by contacting the chair of the Finance Department at 814-393-2626. Usually awarded in February or March.

Burns and Burns Scholarship: This endowed scholarship is available to students majoring in finance, real estate, and insurance. The award process is initiated by faculty nominations. Nominees are required to submit a resume and are evaluated on academic achievement and contributions to the department, the College of Business Administration, Clarion University, and the local community. Contact the chair of the Finance Department at 814-393-2626 for additional information. Deadline date is March 1.

Gray Real Estate Scholarship: This endowed fund will provide scholarships for high achieving students majoring in real estate or finance. Students must be of sophomore standing or higher and have completed six credits in real estate. Students must have a 3.0 or above cumulative QPA. Additional information can be obtained from the chair of the Finance Department at 814-393-2626. Deadline is March 1.

Marketing

Paul Y. Kim Advertising Management Scholarship: This endowed scholarship established by Dr. Paul Y. Kim professor and former chair of the Marketing Department. The scholarship is awarded to an outstanding marketing major who plans for a career in the field of advertising management. The recipient will be selected on the basis of academic achievement, extracurricular activities, and service to the department. Contact the chair, Department of Marketing, at 814-393-2600 for additional information.

Marketing Management Scholarship: This endowed scholarship established through contributions from alumni, friends and faculty of Clarion's Marketing Department. The award is made to a student planning a career in marketing management. Additional information can be obtained from the Marketing Department chair at 814-393-2600.

Marketing Research Scholarship: As part of class projects, teams of marketing research students entered the Arresdust Research Project Competition in 1988 and 1989. The Clarion University teams, coordinated by faculty advisor Dr. Paul Kim, won first prize two years in a row. An endowed scholarship was established to honor the recipients of the awards and to preserve the department's heritage of excellence in marketing research. The scholarship is awarded annually to an outstanding marketing major who plans a career in marketing research. Contact the chair, Department of Marketing, at 814-393-2600 for additional information.

Retail Management Scholarship: This endowed scholarship established by the Marketing Department to fund awards for marketing students. The award is made to a student planning a career in retail management. Additional information can be obtained from the Marketing Department chair at 814-393-2600.

Bonnie Silvertongue Memorial Marketing Scholarship: This endowed scholarship established by the faculty, staff, friends, and former students in memory of Bonnie Silvertongue, who passed away from cancer while teaching at the Department of Marketing. The scholarship is awarded to an outstanding business major planning for a career in the field of marketing. Selection criteria include academic achievement, extracurricular activities, and service to the Clarion University community. Contact the chair, Department of Marketing, at 814-393-2600 for further information.

College of Education & Human Services Scholarships

Education

Class of 1949 Scholarship for Incoming Freshman Education Major: Established by the Clarion University Class of 1949. The class was known for having a large number of returning World War II U.S. veterans. Most of the members of the Class of '49 went on to become distinguished educators. This scholarship perpetuates the long-term commitment of the class members to their alma mater and present day students. To be considered for the scholarship, candidates must have a minimum SAT total score of 1000 (critical reasoning and mathematics component) or ACT composite score of 22, be a prospective education major, graduate in the upper two fifths of high school class, and be a descendant of a Clarion University Alumnus. Students who feel they meet the academic criteria need to submit a letter indicating they are a descendant of an alumnus with name and graduation year of the alumnus to the scholarship administrator in the Admissions Office, Clarion University. Award offered in February for the following school year.

Class of 1950 Scholarship for Incoming Freshman Education Major: Established by the Clarion University Class of 1950. The class was known for having a large number of returning World War II U.S. veterans. Most of the members of the Class of '50 went on to become distinguished educators. This scholarship perpetuates the long-term commitment of the class members to their alma mater and present day students. To be considered for the scholarship, candidates must have a minimum SAT total score of 1000 (critical reasoning and mathematics component) or ACT composite score of 22, be a prospective education major, graduate in the upper two fifths of high school class, and be a descendant of a Clarion University Alumnus. Students who feel they meet the academic criteria need to submit a letter indicating they are a descendant of an alumnus with name and graduation year of the alumnus to the scholarship administrator in the Admissions Office, Clarion University. Award offered in February for the following school year.

Class of 1953 Endowment Scholarship for Incoming Freshman Education Major: This award was established by members of Class of 1953 to honor the 50th anniversary of their graduation from Clarion State Teachers College. As an integral part of Clarion's rich tradition of excellence, members desire that this award will be an annual scholarship awarded to a Clarion University student. All Education applicants for admission who have at least a 3.0 grade point average will automatically be considered for this award. Student must also show financial need as indicated by FAFSA. The scholarship is renewable as long as the student maintains a cumulative 3.0 grade point average at Clarion University and remains an Education major.

Clarion County Chapter of the PA Association of School Retirees Scholarship: One scholarship is awarded each year. Candidate must have graduated from a Clarion County high school or have been a resident of Clarion County at the time of high school graduation. Application is made in the spring to the Education Department chair at 814-393-2404. Selection is based on academic record, contribution to department and university, participation in extracurricular activities, and leadership skills. Letters of recommendation are required.

Robert & Diana Coury Scholarship: This scholarship was established to honor Robert, Class of 1952 and Diana Coury who were strong advocates of Clarion University. Candidates must be current Clarion university students in the College of Education who have completed at least

four semesters of academic work by the end of May. Candidates must show promise of outstanding service to the profession by performance in the classroom as well as in professional development experience outside the classroom. Student must have at least a 3.4 cumulative QPA. Candidates will write a letter of application for the scholarship indicating their strength of eligibility according to the criteria listed above. A candidate will also include his/her thoughts on the contributions they plan to make to the teaching profession. Deadline is April 1. Contact Dean of Education & Human Services for further information.

Eric Flath Scholarship: This scholarship will be established from the estate of Clarion University graduates Robert '50 and Marilyn '67 Flath to honor their son Eric and is to provide education assistance for Clarion University students pursuing a career in the fields of special education or social service. Applicants must be permanent residents in the Keystone or Oil City school districts and the scholarship will alternate each year between the two schools. The scholarship will be available up to four years dependent upon the recipient maintaining a 3.0 QPA in his/her major and demonstrating successful progress toward completion of a degree. Students who receive athletic scholarship are not eligible.

The Grejda Education Scholarship Endowment: This scholarship endowment was created by Dr. Gail F. Grejda in honor of her husband Ed, Clarion alum ('57) and professor emeritus of English ('61-'96); and their family's longtime dedication to outstanding classroom teaching. The purpose of the scholarship is to encourage students who show promise in the field of education, through having demonstrated excellence in their classroom experiences.

Wilma Best Logue Education Scholarship: A scholarship is awarded each year to an incoming freshman planning to major in Education at Clarion University. To be considered, candidates must be seniors at Keystone High School, Knox, Pennsylvania. Student records are reviewed for this award via their admission material.

Florence McLaughlin Scholarship: Established by Mr. David C. Smith, Class of 1964, in honor of Miss Florence McLaughlin who was an English teacher and role model for many students. The scholarship is intended for a Mount Lebanon High School student planning to attend Clarion University. First preference is an incoming English major from Mount Lebanon. Second preference is a secondary education major. Third preference is an elementary education major. For consideration, incoming freshmen need a minimum SAT total score of 1150 (critical reasoning and math components) and should graduate in the top 15 percent of senior class. Student records are automatically reviewed for this award via their admission materials. Special consideration of those students accepted into Clarion's Honors Program.

Elementary Education

Laura Taylor Booth Presidential Scholarship Endowment for Incoming Freshman: Created by Mrs. Oleta B. Amsler in honor of her mother, Laura Taylor Booth with first preference to support elementary education majors from Elk County. Secondary consideration will be given to elementary education majors from western Pennsylvania. Criteria includes at least a score of 1250 (critical reasoning and math components) on the SATs and top 5 percent of high school senior class. This renewable award is offered once every four years. When available, students are automatically considered for this award when they submit their application for admission.

Margaret Elder and Truman W. Weiser Scholarship Fund: This scholarship was established by a bequest for the estate of Margaret E. Weiser. The purpose of the award is to fund scholarships for graduates of Clarion-Limestone School District, Strattanville, Pa., who major in elementary education at Clarion University.

Marlin and Cleva Hartman Scholarship: Established by Marlin Hartman, Class of 1959, and Cleva Haight Hartman, Class of 1959, for an incoming freshman who is a son or daughter of a United States veteran. Financial need is considered. First preference is for a math or math education major. Second preference is for an elementary education major. Strength of academic credential is also influential. Submit DD214 along with letter requesting to be considered to the Scholarship Administrator in the Clarion University Admissions Office. Scholarship awarded by March 1.

Parma Dixon Mooney Scholarship: Awarded each year to a freshman or transfer majoring in elementary education. Candidates must be residents of Clarion County or graduates of Clarion County High School. Selection is based upon academic record, participation in extracurricular

activities, and leadership skills. All Clarion County applicants for admission are automatically considered. Award offered prior to February 1.

Earl R. Siler Memorial Scholarship: This scholarship was established in memory of Dr. Earl Siler to recognize graduate or undergraduate students in the areas of elementary education or early childhood in their professional development activities. For additional information contact the chair of the Education Department at 814-393-2404.

Library Science

Jean Blake Ferguson Library Science Scholarship: This scholarship established by Dr. Jeffrey & Janet Ferguson in honor of his mother, Jean Blake Ferguson, Class of 1948. Jean influenced her children with her strong belief in the importance of education as each has earned advanced degrees. It is their desire to pass on her passion for learning through the availability of this scholarship. To be considered, candidates must be incoming freshman, first generation student, a library science major, dual major, or concentration, and have financial need. An overall QPA of 2.5 or higher is required to receive the scholarship in subsequent years.

Charles R. Flack Scholarship in Library Science: This endowed scholarship established in memory of Charles R. Flack, former head of the Department of Library Science at Clarion. This scholarship is offered to a sophomore or junior enrolled in the Bachelor of Science in Education degree at Clarion or in the Master of Science in Library Science degree program for full-time continuous study. Further criteria include evidence of professional potential in librarianship based upon earned grades and a written statement of personal and professional goals; significant contributions to the purposes and activities of the Department of Library Science; and preference shall be given to a physically challenged student who meets the above criteria. Contact the department chair at 814-393-2271 for more information.

Eleanor DeWald Moore Scholarship: This scholarship recognizes Mrs. Eleanor DeWald Moore, an alumna of Clarion ('42), an associate professor ('56-'72), serving first as assistant librarian in Carlson Library and later as a faculty member of the College of Library Science. The fund awards an undergraduate student of junior or senior standing who is preparing for a career in school librarianship. Selection criteria include professional potential in librarianship based upon earned grades and a written statement of personal and professional goals. Contact the chair of the Department of Library Science at 814-393-2271 for information.

Helen and Lawrence Smith Scholarship: These scholarships are made possible by an endowment established by Mrs. Helen Smith in memory of her husband. Applicants must be full-time students at the junior or senior level majoring in library science or mathematics, must have completed at least 64 credits, and have a QPA of 3.0 or higher. The scholarships are available for a second year, provided students maintain the academic standards required. Contact the chair for Library Science at 814-393-2271.

Secondary Education-English

Gilbert Neiman Scholarships: These scholarships were established in memory of Dr. Gilbert Neiman, former professor of English at Clarion University. Three awards are made each year, one each to a junior, sophomore, and freshman who major in English, liberal arts, or secondary education English. Freshman applicants must submit a creative writing or critical essay, recommendation from a senior English teacher, and a high school transcript. Scholarship application should be submitted after the student has been accepted at Clarion with the English Department at 814-393-2482.

Secondary Education-Mathematics

Fred L. and June McCall Burns & Family Scholarship: This sophomore year scholarship established by Dr. Max H. Burns in honor of his parents Fred and June McCall Burns. Current student must be seeking a degree in Music, Drama or Mathematics or in the Education fields of Music, Drama or Mathematics, and possess excellent grades at Clarion. Contact the Scholarship Administrator in the Admissions Office for additional information.

Tom A. Carnahan & Mel A. Mitchell Secondary Education/Mathematics Scholarship: This endowed scholarship established to benefit Clarion students enrolled in the secondary education/mathematics degree program. The award will be made to one or two full-time students who

have been admitted to the Teacher's Certification Program and who have achieved a minimum of 3.0 quality point average in completed mathematics courses. The Office of the Dean of Education will be responsible for mailing applications to all eligible students. In addition to submitting an application, students are required to provide two letters of recommendation. Students are eligible to apply for the scholarship for a second year. Completed application and attachments must be returned by March 15.

Marlin and Cleva Hartman Scholarship: Established by Marlin Hartman, Class of 1959, and Cleva Haight Hartman, Class of 1959, for an incoming freshman that is a son or daughter of a United States veteran. Financial need is also considered. First preference is for a Math or Math Education major. Second preference is for an Elementary Education major. Strength of academic credential is also influential. Submit DD214 along with letter requesting to be considered to the Scholarship Administrator in the Clarion University Admissions Office. Scholarship awarded by March 1.

Secondary Education-Physical Sciences

Harold William Ferguson Scholarship: Established by Dr. Jeffrey and Janet Ferguson in honor of his father, Harold William Ferguson ('41). The purpose of the scholarship is to assist students interested in the physical sciences who wish to teach upon graduation.

Secondary Education-Social Studies

John Francis Salvucci Scholarship: This scholarship established by Mr. & Mrs. Gene Salvucci in memory of their son, John, who graduated from Clarion with a History degree in 1981. Incoming freshmen enrolled in the Secondary Education/Social Studies program will be given first consideration with second preference given to incoming freshmen that have declared a History major. To be considered, students must have a minimum SAT total score of 1100 (critical reasoning and math components) and be in the upper two-fifths of his or her high school graduating class. Student records are reviewed for this scholarship upon receipt of their admissions materials; no scholarship application is required.

Secondary Education-Spanish

Megan Lhota-Calderaro Memorial Scholarship: This scholarship was established by Jim Calderaro, Jr. in honor of his wife, Megan Calderaro, Class of 1973, who passed away March 15, 2003. Megan was a Spanish Education major at Clarion. She always spoke highly of her experience at Clarion and Megan was very proud of her Spanish Education degree. She was a high level manager for Bell Atlantic/Verizon Inc. for 20 years. She utilized the Spanish portion of her education to help Bell Atlantic/Verizon conduct seminars in different countries. Megan was a very giving, selfless person. This scholarship is a way of keeping her memory alive. It is intended to honor her giving nature for many years to come. Eligible candidates for consideration must be an incoming freshman Spanish Education major with a minimum 3.0 GPA and minimum SAT total score of 1000 (critical reasoning and mathematics component). All applicants for admission who meet the specific criteria will automatically be considered for this scholarship award.

Special Education

Kenneth and Marjorie Vayda Scholarship: Established by the first chair of the department and available to a junior or senior student majoring in special education or rehabilitative sciences. Minimum requirements include achieving a 3.5 QPA and active involvement with persons who have disabilities. Application deadline date is March 15. Contact the department chair at 814-393-2325.

Ginny Thornburgh Recognition Scholarship: Established in honor of the former first lady in Pennsylvania, Ginny Thornburgh, one scholarship is awarded each year to an outstanding junior or senior majoring in special education. Selection is based upon academic record (minimum QPA 3.5) and service to individuals with disabilities. Contact the Special Education and Rehabilitative Sciences Department chair at 814-393-2325. Applications must be received by March 15.

Special Education/Rehabilitative Science Freshman Scholarship: This endowed scholarship was established by the Department of Special Education and Rehabilitative Sciences and is offered each year to an incoming freshman majoring in special education or rehabilita-

tive sciences. The recipient of the award will be selected based upon academic achievement, leadership, and community service. Contact the chair of the Department of Special Education and Rehabilitative Sciences at 814-393-2325 for additional information. Deadline date is March 15.

Speech Pathology and Audiology

Marian Renn Marshall Scholarship Awards: Established in memory of Marian Renn Marshall. The award offers assistance to students admitted to the Speech Pathology and Audiology program. Selection made by the Speech Pathology and Audiology department on the basis of students' academic records.

Edwin R. "Jack" Simpson Scholarship: Established by family, friends, and members of the Speech Pathology and Audiology program to honor Mr. Simpson, who joined the faculty in 1966 and taught for 22 years. In recognition of his commitment to the Speech Pathology and Audiology department, a Simpson Scholarship recipient selected each year by a departmental committee. Awards will be made based upon the student's academic record and service to Clarion University.

Athletics

Alpha Gamma Phi Scholarship: This scholarship established by the brothers of Alpha Gamma Phi fraternity. It is awarded to an incoming freshman student-athlete. Recipient must have a minimum SAT total score of 900 (critical reasoning and math components), be ranked in the upper two-fifths of his/her graduating class, have financial need, and meet the eligibility requirements of the NCAA. Prospective student athletes will automatically be considered.

Alumni Association Athletic Scholarship: This scholarship endowment was created by the Clarion University Alumni Association with proceeds from the annual "Spring for Scholars" auction. These scholarships are available to Clarion University athletes who meet the NCAA eligibility requirements. Prospective student athletes will automatically be considered.

Dr. Helen M. Barton Women's Basketball Endowment: This scholarship established by Mary L. Seifert, Class of 1946, in memory of former physical education teacher Helen Barton. Scholarship is for a female freshman student athlete. First preference is given to a female basketball player. Athlete must also meet the eligibility requirements set by the NCAA. Prospective student athletes will automatically be considered.

Burns and Burns Golf Scholarship: Established to provide support to outstanding student-athletes participating in the golf program. Prospective student athletes will automatically be considered.

John V. Calipari Scholarship Endowment: This scholarship was created by John V. Calipari ('82) and is supported by his former Clarion teammates. The scholarship will be awarded annually to a Clarion University men's basketball player. The athlete must meet the eligibility requirements set by the NCAA. Prospective student athletes will automatically be considered by the basketball coaching staff.

George B. Garbarino Scholarship: An endowed scholarship created via proceeds from the university's annual Wild Game dinner along with gifts from friends of Mr. Garbarino. This athletic scholarship administered by the athletic director. Scholarships are available to both men and women who compete on intercollegiate teams at Clarion. Prospective student athletes will automatically be considered.

Johnny Garneau "Golden Spike" Volleyball Scholarship: The scholarship was established by Chuck ('72) and Jane ('73) McLaughlin in honor of Jane's father, Johnny Garneau. During the time he lived in Clarion, Johnny was renowned for his "Johnny Garneau" restaurants in the Clarion County community and in Pittsburgh, Youngstown, Cleveland, and southern Florida, and was one of the founding fathers of the local Autumn Leaf Festival. This scholarship also recognizes the athletic accomplishments of his grandchildren, Megan, CJ, and Kayley McLaughlin. Eligibility criteria considered by Clarion's volleyball coach includes an incoming freshman volleyball player, a player who meets the eligibility requirements set by the NCAA, and preference will be given to a business major with a grade-point average of 3.2 or higher in high school.

Golden Eagle Scholarship Endowment: Scholarships are available to both men and women who compete on intercollegiate teams at Clarion. Interested students should have their high school coach contact

the respective coach at Clarion for additional information. Coaches will make the scholarship offer to one of those scholar athletes in his/her group of recruits/team members each year. Prospective student athletes will automatically be considered when appropriate.

Al & Karen Jacks Football Scholarship: This scholarship established to honor Coach Al Jacks and his late wife, Karen, for their unselfish contributions to the football and athletic programs at Clarion for more than twenty years. Candidate must be a Clarion University football player who meets the NCAA eligibility requirements. Prospective student athletes will automatically be considered.

Ernest W. Johnson Memorial Baseball Scholarship: This scholarship is available to a member of the Clarion University baseball team who is a resident of Pennsylvania. In addition, the individual must have completed at least three academic semesters, be in good academic standing, and be eligible for participation in NCAA events the following year. Prospective student athletes will automatically be considered.

Joe Kata, Class of 32, Memorial Scholarship: This scholarship established by Verna Kata, Class of 32, in memory of her husband Joe who was a former three-sport athlete and local high school football coach, as well as a guidance counselor and superintendent. The award will be given to a male or female freshman student athlete who meets eligibility requirements set by the NCAA. Prospective student athletes will automatically be considered.

The Pat Kiehl Diving Scholarship: Established by Mr. Pat Kiehl, Clarion Class of 1972. Pat was a member of the first swimming team at Clarion—only two divers—in 1968. He was the first captain of the team, Clarion's first national champion, All-American, and MVP. Pat was a former professional high diver and won the Masters National Age Group Diving Championship. Pat came from humble beginnings and diving at Clarion was Pat's ticket out and led to his great success in business. To be considered for the scholarship, candidate must be a Clarion male or female diver. They must also meet the eligibility requirements set by the NCAA. Student athletes will automatically be considered.

Joseph J. Knowles Memorial Scholarship: This scholarship fund was established to financially assist men and women student athletes. Two awards (one man and one woman) are presented each year. Prospective student athletes will automatically be considered.

Dr. Rebecca Rutt Leas Women's Swimming Scholarship: The scholarship created by Dr. Rebecca Leas (former coach) and Milissa (Steiner) Bauer '84, a former Clarion swimmer and Clarion University graduate. Dr. Leas was head women's swimming coach from 1979-1987, leading Clarion to six Division II national team titles and a second and a third-place finish. Her teams were undefeated in PSAC dual meets and won every PSAC championship for eight straight years. Clarion defeated many D-1 schools and competed at the Division I national championships 1982-86 and the 1984 U.S. Olympic trials. During Dr. Leas' tenure, the women excelled in the classroom. The scholarship is awarded to a woman who demonstrates a spirit of excellence both in the water and the classroom. It is awarded to an undergraduate who meets NCAA Division II regulations and maintains at least a 2.8 QPA while swimming at Clarion University.

Clarence and Janet Lesser Scholarships: The Lesser Trust Fund provides scholarships to successful students in the areas of theatre, art, music, and athletics. High school students who have exhibited high interest and achievement in these areas are urged to apply. Application for consideration needs to be submitted prior to April 1. Selection is based upon talent, academic promise, and leadership potential. Awards may be continued in subsequent years at the discretion of the selection committee, subject to the availability of funds. Contact the Financial Aid Office at 814-393-2315 for additional information.

James A. "Abby" Mays Scholarship: The scholarship established by Carloyn Mays Axtell in memory of her father, a leader in the development of Clarion County. The purpose of the award is to assist student-athletes enrolled in the College of Business Administration who meet eligibility requirements for either football or men's basketball. Prospective student athletes will automatically be considered.

Dave Mercinko Memorial Scholarship: Established by Michael, Class of 1979, and Courtney Baker in memory of Dave Mercinko, a former Clarion University football player. This scholarship will be an annual award for a freshman Clarion University student athlete. To be considered one must have a minimum SAT total score of 900 (critical reasoning and math components) or above, graduate in the top two-fifths

of high school class, and demonstrate financial need. Prospective student athletes will automatically be considered.

William G. Miller Swimming/Diving Scholarship: Established to honor Bill Miller who was the Head Men's & Women's Swimming and Diving Coach at Clarion University from 1979-2000. After 22 years as the men's swimming coach, he finished with a duel record of 154-38, and after 13 years as the women's swimming coach, he finished with a duel record of 90-20. Eligible candidates must be a member of the Clarion University Swimming/Diving Team and meet the NCAA eligibility requirements. Prospective student athletes will automatically be considered.

Potter-McClune Scholarship: This scholarship endowment was established by Mr. Clifford R. McClune and his wife Maralouise, in honor of his parents, Blance Irene Potter and Russell R. McClune; and grandparents. The scholarship was created to support of student athletes from either Clarion County high schools (preference to students from Clarion Area or Clarion-Limestone High School) who demonstrate financial need. (Second preference the remaining Clarion County schools) Recipients are eligible to receive the award in subsequent years, provided that they remain in good academic standing (3.0 or higher). Prospective student athletes will automatically be considered.

The Dean James D. Moore Women's Softball Scholarship: Established by David C. Smith '64 to honor Dean James Moore who was a former dean at Clarion State College. Dean Moore was involved with many areas of campus during his tenure at Clarion including assisting in coaching football and scouting, admission officer, and director of community housing for off-campus housing. At retirement in 1972, Dean Moore had served the longest term of any academic dean among Pennsylvania's state colleges and universities. Eligible candidates must meet admission's requirements for enrollment and plan matriculation to Clarion University and must be a player who meets the eligibility requirements set by the NCAA. First preference will be given to a student from the College of Education and Human Services.

Pat Mooney Cross Country/Track & Field Scholarship: This scholarship was established by friends, former student-athletes, and family of Coach Pat Mooney, a highly regarded member of the Clarion University coaching staff for more than 10 years. Eligibility criteria considered by the current coach is: a current male or female member of Clarion University's cross country or track & field team, a member of the team entering their final season of competition in either sport, student must be a non-athletic scholarship member of the team, and the individual must have contributed over the years to the well being of the team and university.

Mark Nanz Memorial Endowment: Established by Chuck Nanz, the former head swimming coach at Clarion University and father of Mark Nanz. Chuck started the swimming program when the natatorium was first opened in the late 1960s. His team placed second in the conference its first year and was the Pennsylvania State Athletic Conference Champion the next seven years in a row. The Nanz family lost their beloved son, Mark, three days prior to his 30th birthday in a tragic accident that occurred while he was returning to Pennsylvania for a reunion with former swimming teammates for Clarion. The scholarship is presented each year, by the head coach, to a male Clarion University swimmer.

The Dr. Max Nemmer Women's Tennis Scholarship: Established by David C. Smith '64 to honor Dr. Max Nemmer who was a respected and admired professor of Mr. Smith while at Clarion State Teachers College. Dr. Nemmer came to Clarion State in Fall 1960 where he taught English and was an esteemed colleague and admired educator. Eligible candidates must meet admission's requirements for enrollment and plan matriculation to Clarion University and must be a player who meets the eligibility requirements set by the NCAA. First preference will be given to a student from the College of Education and Human Services.

Richard L. & Mary Lou Pae Football Scholarship: This scholarship was established by friends, former players, and family in honor of Dick Pae. "Coach Pae" was a member of the Clarion University Health & Physical Education faculty for nearly 30 years and is remembered as a highly regarded teacher, a dedicated coach, a great mentor, and an outstanding influence on Clarion's proud tradition in athletics. Mary Lou, along with Karen Jacks, started the End Zone T-shirt stand in the late 70s to provide funds for gifts for graduating seniors. As assistant dean in the College of Business, Mary Lou guided many students

toward earning their degrees. The head football coach will award this scholarship to a junior football player who will advance to senior status and has demonstrated excellence on the field and in his studies. Special consideration is given to defensive players majoring in business.

The Diane L. Reinhard Women's Soccer Scholarship: Established by Mr. David C. Smith '64 to honor Dr. Diane L. Reinhard for her years of dedicated service to Clarion University. Diane L. Reinhard was president of Clarion University for 13 years (1990-2003) and was highly regarded as a dedicated university administrator, mentor, and outstanding visionary for the success of Clarion University. David Smith was a secondary English teacher, guidance counselor, and school psychologist and very dedicated to Clarion University. Eligible candidates must meet admission's requirements for enrollment and plan matriculation to Clarion University and must be a player who meets the eligibility requirements set by the NCAA. First preference will be given to a student from the College of Education and Human Services.

Fran Shope Scholarship: A scholarship is awarded to a junior or senior woman who has made outstanding contributions to Clarion University athletics. Prospective student athletes will automatically be considered.

W. S. Tippin Scholarships: Scholarships are available to both men and women who compete on intercollegiate teams at Clarion. Interested students should have their high school coach contact the respective coach at Clarion for additional information. Prospective student athletes will automatically be considered.

Weir Family Scholarship: Established by Chuck Weir, Class of 1956, a former Clarion University athlete, and Shirley Weir, in honor of the Weir family that includes many children and grandchildren, some of who have graduated from Clarion University. This scholarship will be awarded to a freshman student-athlete who meets the eligibility criteria set by NCAA. Prospective student athletes will automatically be considered.

George W. Williams/ Robert Bubb Wrestling Scholarship: This scholarship established by Mrs. Nancy Williams in memory of her husband, the voice of Clarion wrestling for many years. The award is made annually to a member of the university's wrestling team or a graduate student associated with the program. The recipient will be selected based upon the following requirements: academic proficiency, wrestling performance, character, moral standards, and eligibility under NCAA rules. Prospective student athletes will automatically be considered.

Dr. George F. and Twila M. Wollaston Scholarship: This endowed scholarship funded by the Wollastons (George '57 and Twila M. '58) as a means of attracting outstanding young men and women in academics and athletics to Clarion. Two freshman scholarships are awarded each year, one to a member of the men's baseball team and one to a member of the women's basketball team. Prospective student athletes will automatically be considered.

Scholarships—Venango Campus

General

Unless otherwise indicated in the description information on Venango Campus scholarships, forms can be obtained by contacting the chair of the Venango Campus Scholarship Committee or Admissions and Financial Aid Office at 814-676-6591, ext. 1211.

Arthur J. Acton Scholarship: Assists students enrolled in Clarion University's LEAP program. The award is based on financial need and academic credentials. Students automatically considered.

Louis D. Adelson Venango Student Housing Scholarship: Established to assist the following groups of students residing in the student apartments at Clarion University—Venango Campus: Disabled veterans enrolled full-time; veterans at-large enrolled full-time; and non-traditional students enrolled full time. Students must also demonstrate financial need. To be considered for the award in subsequent years, student recipients must maintain a 2.0 grade point average or higher.

Ronald E. Black Endowed Scholarship: Provides an award to a student at the Venango Campus. Preference is given to adult students who are residents of Venango County.

Frank Clark Scholarship: Established by Mr. Frank Clark who taught in the Speech & Theater Department at Clarion University from 1967 through 1995. The intent of the scholarship is to award an incoming

freshman from a Venango County high school who is planning to attend the Venango Campus. Second preference will be given to incoming freshman from a Clarion County school district. Academic criteria include a minimum SAT total score of 950 (critical reasoning and mathematics component) and graduation in the upper half of class.

Derrick Publishing Company Scholarship Endowment to honor Edward P. Boyle: Mr. Boyle helped nurture the growth and development of Venango Campus, serving as director and vice president of the Venango Campus Advisory Council. To be eligible, candidates must be a resident of Venango, Clarion, or Forest County and be attending Clarion University–Venango Campus. Academic merit and demonstrated financial need is evaluated. First priority will be given to an employee or child/spouse of an employee of the Derrick Publishing Company, who meets the criteria for the scholarship.

Galaxy Federal Credit Union Scholarship: Established by Galaxy Federal Credit Union and awarded annually through the Venango Campus Scholarship Committee to a Venango County resident.

Dr. Thomas A. Gardner Radiologic Sciences Scholarship: Established in honor of Dr. Gardner by family and friends. Candidates must be enrolled in the baccalaureate degree program in radiologic technology at Clarion University–Venango Campus.

Gent, Gent & Snyder Scholarship: Established by the Gent, Gent & Snyder Law Firm, the annual scholarship is awarded to candidates with academic merit and financial need.

Paul M. Goldberg Memorial Scholarship: Established by family and friends to assist Venango Campus students pursuing a business-related degree. Academic talent and financial need are criteria. Preference is given to students from the Oil City area.

Highmark Blue Cross/Blue Shield Scholarships: Several scholarships awarded annually to high ability recent high school graduates and academically promising returning adult students. Priority given to health science majors including radiologic science, nursing, rehabilitative science, and psychology.

William Huber Sr. Memorial Scholarship: This scholarship was established by friends of William Huber, a Venango County resident, who was an exceptional guitarist and extremely active in the community. Eligible recipient must be an active community member.

Dr. Glenn McElhattan Scholarships: Established to honor Dr. McElhattan, a Clarion alumnus and Chemistry Department faculty member at the Venango Campus. Eligible candidates must be high school seniors enrolled at the Venango Campus for their freshman year. Awards are granted based upon academic achievement. First priority to Honors Program candidates.

In Memory of William J. McFate and Judge William E. Breene, by the trustees of the Dr. & Mrs. Arthur William Phillips Charitable Trust: Mr. McFate and Judge Breene served for many years with distinction as trustees of the Dr. & Mrs. Arthur William Phillips Charitable Trust and were highly respected in the region for their leadership and integrity. The purpose of the scholarship is to benefit Clarion University students entering fields of study in health-related professions, including students enrolled in the School of Nursing & Allied Health at the Venango Campus. Recipients shall have demonstrated financial need and academic merit.

Oil City Lions, Lillian (Shaw) Shinkle, and Ted Shaw Scholarship: Established by the Oil City Lions Club in honor of Lillian Shaw Shinkle and Ted Shaw. Eligible candidates must be recent graduates of Oil City or Venango Catholic high schools and must be entering their first year of study at the Venango Campus. Scholarship recipients may reapply in their second year of study at either Venango Campus or Clarion Campus.

Oil City Rotary Club Scholarship: Awarded by Oil City Rotary Club through the Clarion University Foundation. Recipient must be a resident of Venango County for one year, and is selected on the basis of academic record, financial need, and participation in extracurricular activities and community service. First preference to Rotary Club families.

Oil City Second Presbyterian Women Scholarships: Several scholarships are provided annually to the Venango Campus Scholarship Committee by this organization. Candidates must be health science majors. Priority is given to Venango County residents with financial need. The award may be renewed in succeeding years.

Pennzoil Scholarship Endowment: Scholarships are made available by the Clarion University Foundation through an endowment established

by Pennzoil. Award criteria are based on academic achievement and financial need.

John N. and Sarah H. Rees Scholarships: Provided through a generous donation from the Rees Charitable Foundation. The gift provides scholarships for Venango Campus students in two areas, academically gifted students and first-time-in-college adults.

Regional Vision Leadership Scholarship: Established by Regional Vision Leadership Development for Rural Northwest Pennsylvania to assist Venango Campus students who exhibit leadership qualities in their community or school.

Laura A. Smedley Scholarships: Scholarships, not limited in number and not specified in amount, are granted to Venango Campus students who are graduates of secondary schools serving Venango County. Eligible candidates must be full-time students enrolled in any associate degree program. Selection is made based upon financial need and academic record. Instructions for the complete application process can be obtained from Stephen Kosak, Box 374, Oil City, PA 16301. Deadline for submission of application is April 15.

UPMC Northwest Women's Auxiliary Health Career Fund Scholarships: Awarded by the Venango Campus Scholarship Committee to Venango, Forest, and Clarion County residents attending Venango Campus for educational purposes in health career fields.

Greg Vayda Memorial Scholarship: Established by family and friends to honor the memory of Greg Vayda, son of long-time chairman of the Clarion University Special Education Department Ken Vayda and Mrs. Vayda.

Venango Campus Scholarships: Several scholarships, contributed by Venango Campus employees, available through the Venango Campus Scholarship Committee for students attending Clarion University–Venango Campus.

Venango Campus Endowment Scholarships: Endowment established by Venango Campus employees that funds several scholarships for students attending Clarion University's Venango Campus.

Frank and Clara Williams Scholarship: These scholarships, not limited in number and not specified in amount, are granted to Venango County residents. Eligible students must be full-time freshmen or sophomores and be enrolled in a four-year degree program. Selection is made based upon financial need and academic record. Applications may be obtained from Stephen Kosak, Box 374, Oil City, PA 16301.

Zonta Club Scholarships: Scholarships made available by the Zonta Club of Oil City-Franklin. Award recipients must be students who reside in Venango County. Consideration is based upon the students' academic record, financial need, and participation in extracurricular activities.

Nursing and Allied Health

Rosemary Coogan Endowed Scholarship: Established by John A. Coogan Jr. in memory of his late wife, Rosemary Coogan, who had a long and distinguished nursing career. The endowment will provide annual scholarship(s) that will be awarded to a student(s) currently enrolled in Clarion University's School of Nursing & Allied Health, and majoring in nursing. Candidate must demonstrate academic merit and must demonstrate financial need via FAFSA.

Dr. Julia Donovan Memorial Scholarship: Established by Dr. Donovan's friends and family in her memory. The purpose is to provide financial support to students pursuing a career in nursing. Eligible candidate must be a graduating A.S.N. student who will enter the BSN or RN to MSN program at Clarion University. Candidates must demonstrate strong academic ability and financial need.

Elizabeth M. McCord Scholarship: Established by the McCord family in honor of Mrs. McCord and her service to the university's Health Center. First preference is given to full-time graduate students in the M.S.N. family nurse practitioner program. Second preference is given to students with six or more graduate credits each semester. Thereafter, consideration will be given to bachelor's degree students and finally associate degree candidates within the Department of Nursing.

Nursing Department Scholarship Endowment: To be considered, a student must be a registered nurse working toward a BSN, have a B average in nursing courses, 3.0 minimum overall QPA, have financial need and be a full-time Clarion University student. Candidates should contact the Director of Nursing and Allied Health at Venango Campus

for information. Applicants must have recommendations from two nursing instructors and exhibit service to the university and/or nursing profession.

Dr. and Mrs. Arthur William Phillips Scholarship Fund: Made possible by a donation from the Dr. and Mrs. Arthur William Phillips Charitable Trust of Oil City. Scholarships are available to students enrolled or planning to enroll in undergraduate work in the Nursing Program or other programs related to medicine. Candidates must have attended high school or been a permanent PA resident for at least the past five years in Allegheny, Butler, Clarion, Crawford, Erie, Forest, Mercer, or Venango counties; have achieved positive academic records or manifest promise of academic success; and have good moral character. Financial need shall be considered secondarily. Further information can be obtained from the School of Nursing and Allied Health: 814-676-6591.

Lyle G. Reinhard Scholarship: Established by President Diane Reinhard in memory of her father. One award is designated for nursing. To be automatically considered, an incoming student must be near the top of his/her senior high school class with an SAT total score over 1000 (critical reasoning and mathematics component). For further information, contact Clarion University Foundation, Inc. at 814-393-1610.

Dolores Sherman Scholarship: Provides an annual award for full-time students pursuing a B.S. degree in nursing. Selection criteria include grades in nursing course work, overall academic record, financial need, recommendation of nursing instructors, and service to the university and/or the nursing profession. For information, contact the chair of the Venango Campus Scholarship Committee at 814-676-6591 ext. 1221.

Dorothy Story Smith Memorial Scholarship: Established by David C. Smith ('64) in memory of his mother. The award provides an annual scholarship to a Clarion University nursing student. Eligible candidates must be an undergraduate student, have an SAT total score over 1,000 (critical reasoning and mathematics component), and demonstrate financial need per the FAFSA application, which must be on file by the application deadline. For further information, contact the School of Nursing and Allied Health at 814-676-6591.

Further information regarding nursing and allied health scholarships is available by calling 814-676-6591, ext. 1250.

Awards

In addition to the many available scholarships, the university also is very proud of its academic achievement, leadership, and service awards, such as:

College of Arts and Sciences

Anthropology, Geography, and Earth Science

Norman Humphrey Geography/Earth Science Award

Biology

Commonwealth of Pennsylvania University Biologist Award

Chemistry

American Institute of Chemists Award
CRC Press-Freshman Achievement Award
Chemistry Department Competitive Award
Outstanding Senior Award

Communication

Outstanding Communication Senior Award

Computer Information Science

Data Processing Management Assoc. Outstanding Student Award

English

English Association of Pennsylvania State Universities Award
Francis G. Greco English Award
Max Nemmer Award

History

Gilbert Hill Award

History/Social Science

Frank Campbell Award

Humanities

Eileen M. Thornton Humanities Award



Mathematics

Mathematical Association of America Award
Pi Mu Epsilon Honorary Award

Modern Languages

French Consul Award in French
Consul General's Award for Achievement in German
Award for Excellence in Spanish

Speech Communication and Theatre

Alpha Psi Omega/Allan Kroh Memorial
Copeland Fellowship Award
Daniel Preuh's Memorial for Musical Comedy
Daniel Preuh's Memorial for Talent in Theatre
Silver Fox Award for Comedy
Mary Sterrett and Elbert R. Moses Jr. Award

College of Business Administration

All Majors

Beta Gamma Sigma Award for Academic Achievement
Wall Street Journal Student Achievement Award

Accountancy

Institute of Management Accountants Senior Award
Pennsylvania Institute of CPAs Senior Award

Administrative Science

Outstanding Administrative Science Student of the Year

Economics

Omicron Delta Epsilon Award for Distinguished Service
Omicron Delta Epsilon Award of Honor for Academic Achievement and Leadership
Omicron Delta Epsilon Award for Outstanding Achievement in Economics

Marketing

Outstanding Marketing Student of the Year

College of Education and Human Services

Speech Pathology and Audiology

National Student Speech-Language-Hearing Assoc. Honor Award
Speech Pathology and Audiology Honor Award

Education

Kappa Delta Pi Award
Dr. John N. "Jay" Moorhouse Award
Dr. Lawrence A. Smith Outstanding Senior Award

University Curricula

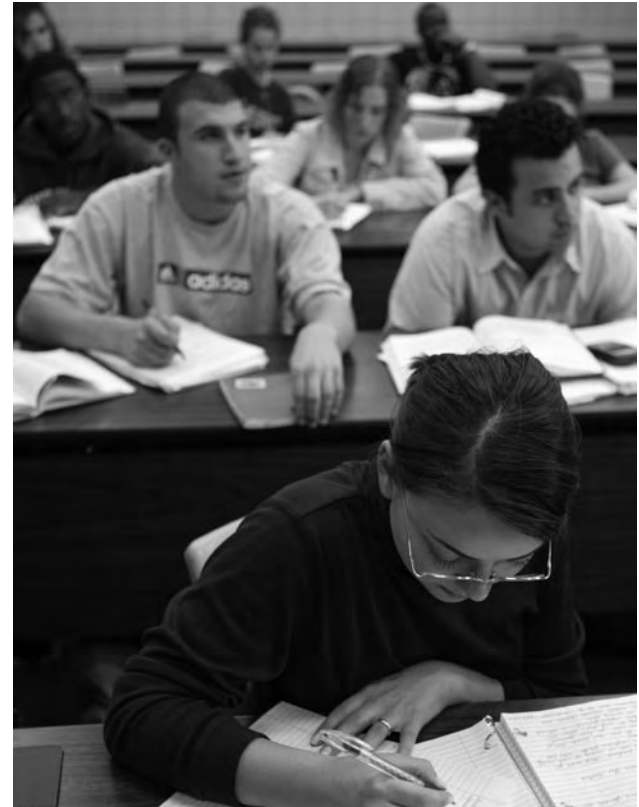
All undergraduate curricula, with the exception of the two-year Associate of Science curriculum in nursing, the Associate of Arts, and Associate of Science degrees, lead to a bachelor's degree and have a common area of 48 semester hours in general education. Students should select their general education courses carefully in consultation with their faculty advisors.

Undergraduate Education

Undergraduate education at Clarion University begins with course offerings and expands with co-curricular activities, student living arrangements, special cultural events in the university and the larger community, and opportunities for relevant work through participation in assistantships, internships, undergraduate research, and student and community organizations.

The university's curriculum enables students to acquire skills, knowledge, and attitudes necessary to attain the goals students set for life. The university believes students should graduate with a distinguished level of abilities and with attitudes necessary to continue developing and refining those abilities. Thus graduates of Clarion University should:

1. be able to read and listen, speak and write with a degree of sophistication;
2. be able to think critically and analytically;
3. possess a broad awareness of human heritage;
4. possess a significant sense of the influence of global affairs on personal and national life;
5. comprehend an academic discipline;
6. formulate, examine, and be guided by conscious personal and social values;
7. be able to recognize and exercise wise choices in life;
8. possess the skills and attitudes necessary to continue to learn throughout life; and
9. be able to participate effectively and usefully in society.



These nine goals for undergraduate education at the university are applicable to the lives of all students regardless of major. All nine of them, taken together, represent the definition of an education which guides Clarion University.

General Education

General Education Distribution

Goals and Purposes

A Clarion University education consists of both disciplinary and general education. Disciplinary education aims to prepare a student in a particular vocation, profession, discipline, or area of study. General education aims to assist the student's development as a person and as a citizen.

A baccalaureate program at Clarion University provides students with both a specialized and a liberal education. A specialized education provides depth of knowledge in an academic discipline and in a career area. A liberal education provides the basis for specialized studies and for life within and beyond the university.

Students have the freedom to select the academic major and elective courses in which they are interested. The general education curriculum provides students with the opportunity to explore a variety of subjects that not only serve their interests but community needs as well.

Students lay out their disciplinary and general education curriculum. Here is an outline of general education requirements:

General Education Requirements

- I. Liberal Education Skills (in writing, mathematics, and communication)—12 credit hours to include:
 - A. Writing II
 - B. A mathematics course
 - C. A selection of courses from academic support, computer information science, communication, elementary foreign language, English composition, logic, mathematics, and speech communication.
- II. Liberal Knowledge (about society, its individuals, culture, and environment)—27 credit hours distributed among three categories:

A. Physical and biological sciences	9 credits
B. Social and behavioral sciences	9 credits
C. Arts and humanities	9 credits

At least two disciplines must be represented within each of the three categories.
- III. Health and Personal Performance (with focus on wellness, creative activities, and use of leisure time)—three credits to include:

A. Health and wellness (one course)	2 credits
B. Personal performance (one course)	1 credit
- IV. General Education Elective (for further exploration of areas of interest and continued broadening of studies)—sufficient course work to bring the total for general education to 48 credits from an approved list in areas of skills or liberal knowledge. These may not be in your major, and only one hour of personal performance is permitted.



General Education Flags

Among the courses meeting requirements in both general education and the major, there are courses having “flags” or special designations.

These flags denote courses that address such practical qualities as the ability to understand and discuss values, to write effectively, and to engage in quantitative reasoning. You will need to be sure courses selected in general education and in the major show a total of five flags in the following categories:

In general education:

- * One first-year **Values Flag**—promotes reflections on personal values, interpersonal values, and societal values.

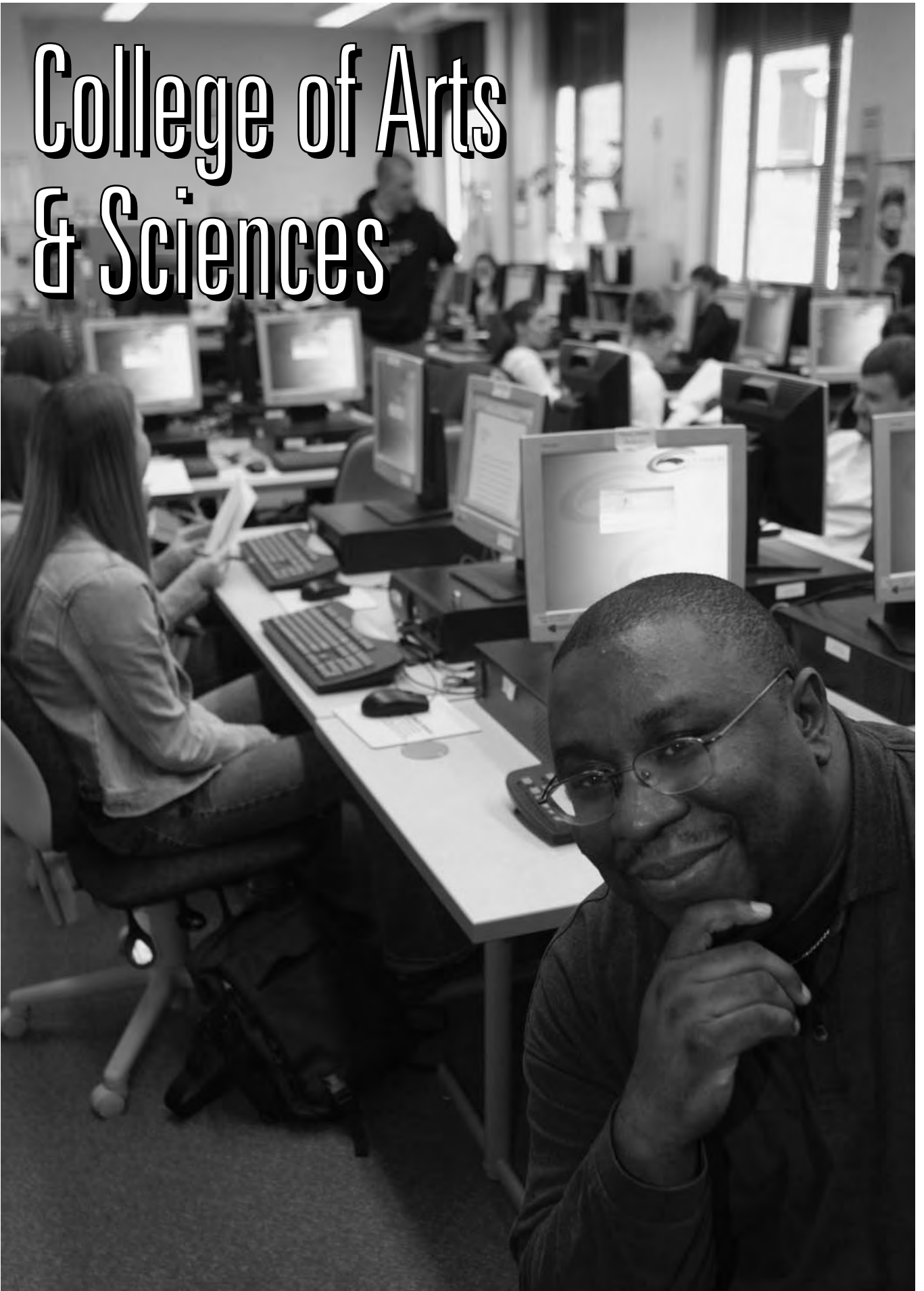
In the major or general education:

- * Two **Writing Intensive Flags**—engage in higher order reasoning and communication in specific disciplines. These two writing courses count for credit beyond general education as part of the total academic experience, either in the major or in support courses for the major.
- * A **Quantitative Reasoning Flag**—to develop skills associated with learning from data, quantitative expression, evidence and assertions, and quantitative intuition.
- * A second **Values Flag**—encourages exploration in human values, applied values, or ethics in a particular context.

Students have the freedom to select the academic major and elective courses that are of interest. The general education curriculum provides the opportunity to explore a variety of subjects that not only serve student interests but community needs as well.

College of Arts & Sciences

College of Arts
and Sciences



College of Arts and Sciences

Rachelle Prioleau, Ph.D., dean

Office: 222 Founders Hall

Telephone: 393-2328

E-mail address: rprioleau@clarion.edu

Website: www.clarion.edu/college/artsci/

Accreditations

American Chemical Society (ACS) – Approval only

College Reading and Learning Center (CRLC)

National Association of Schools of Art and Design (NASAD)

National Association of Schools of Music (NASM)

Degree Listing

Anthropology (B.A.)

Anthropology (Minor)

Latin American and Caribbean Studies (Minor)

Art (B.A., B.F.A.)

2-D Studio (Minor)

3-D Studio (Minor)

Art/Art History (Minor)

Ceramics*

Drawing*

Dual Drawing*

Fiber/Fabric*

Graphic Arts*

Painting*

Printmaking*

Sculpture*

Arts Administration (B.S.) Arts and Sciences (A.A. – Venango)

Biology (B.S.)

Biotechnology (Minor)

Cellular/Organismal (Minor)

Ecology and Evolutionary Biology (minor)*

Environmental Biology (B.S.)

Freshwater Ecology*

Medical Technology (B.S.)

Molecular Biology/Biotechnology (B.S.)

Terrestrial Ecology*

Chemistry (B.S.)

Biochemistry*

Chemistry (Minor)

Chemistry/Business*

Computer Information Science (B.S.)

Computer Science (Minor)

Information Systems (B.S.)

Information Systems (Minor)

Economics (B.A.)

Engineering Coop. Programs

Engineering/Chemistry*

Engineering/Mathematics*

Engineering/Physics*

English (B.A.)

Literature (Minor)

Creative Writing (Minor)

Professional Writing and Rhetoric (Minor)

Environmental Geoscience (B.S.)

Film Studies (Minor)

French (B.A.)

French (Minor)

Geography

Geographic Information Science (Minor)

Geography (Minor)

Geography Sustainable Planning*

Geology (B.S.)

German (Minor)

Gerontology (Minor)

History (B.A.)

Ancient Mediterranean Studies (Minor)

Black Studies (Minor)

History (Minor)

Liberal Studies

Athletic Training*

Education*

English*

Geography and Sustainable Planning*

Writing*

Mass Media Arts and Journalism (B.S.)

Mathematics (B.S.)

Industrial Mathematics (B.S.)

Mathematics (Minor)

Mathematics/Statistics (Minor)

Military Science

Leadership (Minor)

Music—Elective Studies in Business (B.M.)

Music (Minor)

Philosophy (B.A.)

Philosophy (Minor)

Physics (B.S.)

Astrophysics*

Nanotechnology (Minor)

Physics (Minor)

Sustainability Science and Policy (Minor)

Political Science (B.A.)

Political Science (Minor)

Psychology (B.A., B.S.)

Psychology (Minor)

Sociology (B.A.)

Gerontology (Minor)

Social Work (Minor)

Sociology (Minor)

Sociology/Psychology (B.A.)

Spanish (B.A.)

Spanish (Minor)

Speech Communication (B.S.)

Speech Communication (Minor)

Theatre (B.A., B.F.A.)

Acting* (Minor)

Dance (Minor)

Design/Technical Director*

Musical Theatre*

Technical (Minor)

Women's Studies (Minor)

**academic concentrations*



The College of Arts and Sciences offers pre-professional advisement programs in the fields of business (pre-M.B.A.), engineering, law, medicine, dentistry, pharmacy, and veterinary medicine. The college cooperates in its engineering program with the Schools of Engineering at the University of Pittsburgh and Case-Western Reserve University in Cleveland.

The College of Arts and Sciences also cooperates with the Department of Library Science and the College of Education and Human Services to provide certification programs in library science and in secondary education which may be earned concurrently with a B.A. or B.S. degree.

The specific requirements of each of these programs are listed in the pages that follow. Additional information may be obtained from the dean or department chair. All B.A. programs require either second year proficiency in a foreign language or an approved alternative as specified by each major.

Liberal Arts Degree Plus Teacher Certification

Liberal arts students can gain teacher certification in secondary education by taking required education courses and meeting the requirements for a teaching major. Course requirements leading to a B.A. or B.S., however, do not automatically satisfy the requirements for a teaching major and certification. Details are available in the Office of the Dean of the College of Education and Human Services.

Anthropology Courses

ANTH 211:	HUMANS AND CULTURE	3 s.h.
Introduces students to the nature of humanity and the human condition by exploring contemporary and past societies. Applies the four-field approach, emphasizing human diversity, origins of humans and culture, language, and archaeology. Each semester.		
ANTH 213:	INTRODUCTION TO BIOANTHROPOLOGY	3 s.h.
Surveys the human species in time, place, and culture, and investigates factors underlying human variation. Prerequisite: Anthropology or biology course Alternate years.		
ANTH 214:	PRINCIPLES OF HUMAN ECOLOGY	3 s.h.
Examines the functional interrelationships of humankind and the biophysical environment. No prerequisite. Alternate years.		
ANTH 216:	WOMEN AND CULTURE	3 s.h.
Introduces the study of the lives of women in cross-cultural perspective. Explores gender issues including sexual division of labor, inequality, changing position of women in families, and the role of women in development. Alternate years.		

Anthropology

Department of Anthropology, Geography, and Earth Science, Paul Ryberg, Ph.D., chair

335 Peirce Science Center

Telephone: 393-2317

E-mail address: pryberg@clarion.edu

Website: www.clarion.edu/ages/

Professor: Prezzano; **Associate Professor:** Occhipinti

Do you ever wonder what it means to be human? Anthropologists seek to answer this question by investigating the human condition in all times and all places. Human genetics, the origin of our species, the rise and fall of civilizations, world languages, and the wide diversities of peoples, cultures, and religions are just some of the topics you can explore through anthropology. This discipline is the broadest social science and is unique in its cross-cultural and holistic perspectives. The program offers courses in all four of the anthropological sub-disciplines: biological anthropology, anthropological linguistics, archaeology, and cultural anthropology.

A major in anthropology provides a firm basis for exploring careers in museums, aid agencies, business, government, forensics, and teaching. Both majors and non-majors can take part in local and international field and laboratory experiences that provide the opportunity to contribute to current anthropological research. Completing the archaeological field school gives students hands-on experience in excavating an archaeological site. This course trains participants for immediate employment in public archaeology.

ANTHROPOLOGY, B.A. 33-51 credits

Required: ANTH 211, 213, 362, 380, and 21 additional credits in anthropology chosen in consultation with a departmental advisor. In addition to 30 credits in anthropology, the following courses are required: SOC 211, GEOG 100, and 15 additional credits chosen from biology, history, earth science, geography, or sociology. Students may choose either foreign language competency or quantitative methods core.

ANTHROPOLOGY, MINOR 18 credits

In addition to ANTH 211, anthropology students will complete nine credits of anthropology courses at the 300-level and an additional six credits of anthropology courses.

LATIN AMERICAN AND CARIBBEAN STUDIES, MINOR 18 credits

Required: 18 credits, chosen from a menu of interdisciplinary course. Courses must be chosen from at least two academic disciplines; at least nine credits must be at the 3000- or 400-level.

- ANTH 218:** *BURIED CITIES AND LOST CIVILIZATIONS* **3 s.h.**
Introduces students to archaeology and to what archaeologists do. Provides a long-term perspective on human history starting with the first archaeological sites over 2.5 million years old. Addresses some of the more popular theories about the prehistoric human past. Alternate years.
- ANTH/ENG 242:** *INTRODUCTION TO AMERICAN FOLKLORE* **3 s.h.**
Provides an introduction to American folklore and its relationships to American literature. Introduces the major genres of American folklore, such as legend, talk, folk belief, song and ballad, and material folk culture; and various folk groups in America, such as occupational, gender, ethnic, age, regional, and their traditions. Analyzes examples of American literature and American popular culture through an examination of their American folk elements. Provides students with fieldwork experiences and methods of analysis of oral, customary, and literary traditions. No prerequisite. Fall, annually.
- ANTH 245:** *PEOPLES AND CULTURES OF LATIN AMERICA* **3 s.h.**
Introduces the rich variety of ethnic groups and cultures of contemporary Latin America, including Central and South America. Topics include social structures, economic organization, gender roles, religion, political systems, ethnic identity, and globalization. Focus will be on indigenous peoples, with an emphasis on their role in national societies and the international economy. Alternate years.
- ANTH 250:** *PREHISTORIC NORTH AMERICA* **3 s.h.**
Examines the development of North American Indian cultures from the beginning of human migration in the late Pleistocene to the coming of Europeans. Emphasizes human interrelationships with the various New World environments in time and space which led to the rise of prehistoric cultures, food production, trade, etc. No prerequisite. Alternate years.
- ANTH 251:** *HISTORIC INDIANS OF NORTH AMERICA* **3 s.h.**
Surveys American Indians ethnographically. Explores cultural processes, historic events, and ecological adjustments to understand the diversity of Indian culture at the time of their discovery by Europeans. Considers American Indian acculturation and contemporary Indian issues. No prerequisite. Alternate years.
- ANTH 252:** *CULTURES IN COLLISION: THE ANTHROPOLOGY OF CULTURE CONTACT* **3 s.h.**
Provides an anthropological perspective on the nature and consequences of culture contact between different societies. Focuses on contact between western and nonwestern cultures. Explores both historical and contemporary cultures. Alternate years.
- ANTH 253:** *ARCHAEOLOGY OF EASTERN NORTH AMERICA* **3 s.h.**
Provides detailed survey of prehistoric developments in North America east of the Mississippi from Late Pleistocene to the Colonial Period. Familiarizes students with the prehistory of the Amerind populations in the area, including the gradual emergence of the Woodland pattern. On demand.
- ANTH/ENG 262:** *INTRODUCTION TO THE ENGLISH LANGUAGE* **3 s.h.**
Deals generally with the nature of language and specifically with the grammatical structures of modern English, its regional and social varieties, and certain highlights of its historical development. Each semester.
- ANTH 300:** *LABORATORY METHODS IN ARCHAEOLOGY* **3 s.h.**
Provides a hands-on overview of the major analytical methods in archaeology and a basic understanding of both the practical application of standard methodologies, and the questions archaeologists address. Prerequisite: ANTH 211. Alternate years.
- ANTH 315:** *ENDING POVERTY* **3 s.h.**
Introduces the field of development anthropology, including its applied aspects. Explores the history of development theory; models of cultural change; contemporary issues of poverty and globalization; models of program design. Provides students with a practical background in project design, assessment, and management. Alternate years.
- ANTH/ENG 352:** *TOPICS IN FOLKLORE* **3 s.h.**
Provides intense study of one or more aspects of folklore study. Focuses on one or more folk groups, a particular folk genre, folklore and popular culture, or folklore and literature. Offers students a fieldwork experience—collection, transcription, classification—and methods of analyzing of oral traditions. No prerequisite. Every third semester.
- ANTH 357:** *AZTEC, INKA, AND THEIR ANCESTORS* **3 s.h.**
Surveys Indian cultures from the beginnings in the Late Pleistocene to the coming of the Conquistadors. Emphasizes cultural developments, the rise of states, native agriculture, and the development of arts and crafts, including architecture and ceremonial art. No prerequisite. Alternate years.
- ANTH 361:** *WITCHCRAFT, MAGIC, AND RELIGION* **3 s.h.**
Provides cross cultural comparative analysis of human environment with the supernatural. Explores the role of religion and theories dealing with the nature and function of various aspects of supernaturalism from an anthropological perspective. No prerequisite. Alternate years.
- ANTH 362:** *HISTORY AND METHODS OF ANTHROPOLOGY* **3 s.h.**
Provides a general overview of the history of anthropology as an academic discipline, combined with a survey of anthropological theory and research methods. Alternate years.
- ANTH 363:** *HISTORICAL ARCHAEOLOGY* **3 s.h.**
Provides an introduction to the problems and methods of historical archaeology with special emphasis on North America. Usually to be taken in conjunction ANTH 253 (Archaeology of Eastern North America).
- ANTH 364/ENG 353:** *AMERICAN VOICES* **3 s.h.**
Provides an introduction to American dialectology and sociolinguistics. Emphasizes the great diversity and vitality of American English. Covers the causes and mechanisms of linguistic changes, the role of language differences in society, and the relevance of dialectology to language teaching. Pays special attention to the regional speech patterns of Pennsylvania. No prerequisite. On demand.
- ANTH 375:** *ARCHAEOLOGICAL FIELD SCHOOL* **1-9 s.h.**
Provides undergraduates with a practical and technical background in modern archaeological research. Includes an introduction to cultural contexts. Covers all phases of field investigation, including site reconnaissance, site survey and testing, site mapping, controlled excavation, specimen recovery techniques, and information regarding procedures. Includes laboratory methods such as catalog and preservation procedures. Every summer to every other summer.

- ANTH 376: ADVANCED ARCHAEOLOGICAL FIELD SCHOOL** **1-9 s.h.**
Provides students with additional training in archaeological field methods. Students obtain supervisory skills and experience in site interpretation and report writing. Students will learn applied archaeological (Culture Resources Management) field techniques. ANTH 376 is offered concurrently with ANTH 375. Prerequisite: ANTH 375. Every summer to every other summer.
- ANTH 380/ENG 380: LANGUAGE AND CULTURE** **3 s.h.**
An introduction to linguistic anthropology. Focuses on the main areas of intersection between language and culture. Topics may include: animal communication systems; primate language studies; the evolution of language; linguistic diversity; linguistic relativity (a.k.a. the Sapir/Whorf Hypothesis); language endangerment and revival; nonverbal communication; linguistic field methods; ethnopoetics; sociolinguistics; language and identity; language and gender; and the ethnography of speaking. From an examination of such topics, students will learn to see how people use language to create and maintain their cultures, and to recognize the ways in which language itself influences human thought and behavior.
- ANTH 400: INDIVIDUAL RESEARCH** **1-9 s.h.**
Allows students to develop their approach to a specific problem, by conducting individual research defined in conference with the instructor. Regular sessions with the faculty member in charge evaluate the progress of the work and chart its direction. Students expected to acquire research techniques in dealing with their topics. All branches of anthropology may be used to select a topic. Credit and grades will be given only if the project (term paper, survey, investigation, etc.) has been completed to the satisfaction of the project advisor and the departmental chair. Prerequisite: ANTH 211. On demand.
- ANTH 425: FIELD SCHOOL IN CULTURAL ANTHROPOLOGY** **1-9 s.h.**
Provides students with field experience in cultural anthropology. Emphasizes practical, first-hand experience of ethnographic fieldwork. Focus is on research design, qualitative methodology, and communicating results of research. Prerequisites: At least six credits in anthropology, or permission of instructor. Every other year.
- ANTH 426: SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY AND ARCHAEOLOGY** **s.h.**
Focuses on a single topic of interest in archaeology and/or biological anthropology. Course content varies. Topic will be announced in advance. Prerequisite: ANTH 211 or permission of instructor.
- ANTH 427: SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY** **s.h.**
Focuses on a single topic of interest in cultural and/or linguistic anthropology. Course content varies. Topic will be announced in advance. Prerequisite: ANTH 211 or permission of instructor.
- ANTH/ENG 457: INTRODUCTION TO LINGUISTICS** **3 s.h.**
Presents key concepts and basic analytical procedures common to many contemporary linguistics theories. Covers phonetics and phonology, morphology, and syntax in detail. Analyzes the integration of these sub-systems in the overall design of a generative grammar. Prerequisite: ANTH/ENG 262. Fall, annually.

Art

Department of Art, Gary Greenberg, M.F.A., chair

221 Marwick-Boyd Fine Arts Building

Telephone: 393-2291

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Website: <http://clarion.edu/departments/art/art%20department>

Professor: Joslyn

Associate Professor: Thomas

Assistant Professors: Colvin-Woodruff, Franchino, Greenberg, Kuntz, Rose

Are you a problem-solver? Do you imagine what hasn't been? Do you want to give form to your ideas? You may be an artist! Or perhaps you would just like to learn more about art in order to visit museums, start a collection, improve your visual literacy, or broaden your understanding of the world and its possibilities. Art is about all of these things. Living in a culture where you're deluged with images and where visual communication is increasingly important, it's more critical than ever to understand how and why art affects the viewer.

The Clarion University Art Department boasts a diverse collection of faculty with a broad range of backgrounds and interests. Whether you're interested in art history, ceramics, drawing, textiles, graphic arts, painting, printmaking, or sculpture, these professionally active professors will work to help you express yourself and to understand the uses and meanings of visual art in society. Our well-equipped studios support B.A. and B.F.A. degree programs in all the above areas. In our new state-of-the-art multimedia studio, students

evolve into professional graphic designers and illustrators; recent renovations have provided new opportunities in the design, jewelry, and fibers studios. The department's small student-faculty ratio ensures that you receive individual attention, and co-curricular professional opportunities are available through internships and employment in the department. Through art, learn to use your imagination, ambition, and talent to realize your ideas and become a citizen in a visual world.

ART, B.A. 51 credits
Required: ART 110, 121, 122, 125, 126, 211, 212; three additional credits in art history; six credits in art foundation courses, 12 credits in an art concentration (ceramics, drawing, weaving and fiber sculpture/fabric surface design, graphic arts, painting, printmaking, sculpture and art history); 12 credits in art electives; capstone project; and foreign language competency.

ART, B.F.A. 72-75 credits
Required: ART 110, 121, 122, 125, 126, 211, 212; six additional credits in art history; 18 credits in art foundation courses; 18 credits in an art concentration (ceramics, drawing, weaving and fiber sculpture/fabric surface design, graphic arts, painting, printmaking, or sculpture); 12-15 credits in art electives; and the senior art show. Seventy-five credits are required only for majors seeking a dual concentration.

ARTS ADMINISTRATION, B.S. (ART CONCENTRATION) 21 credits
Required: ART 110, 121 or 122, 125, 126, 211, 212, COOP 306; 3 credits to be selected from the following: ART 100-499, ACTG 251, MGMT 320, 324, MKTG 360, 369, MMAJ 100, 101, 140, 312, 443; Selected electives (MBA track) ECON 230, ACTG 252, FIN 370, MATH 232 (regular track); 15 credits to be selected from the following: ART 100-499.

ART, MINOR WITH 2-D STUDIO 21 credits

Required: ART 121 or ART 122; ART 125; three credits in art history or ART 110; nine credits in one two-dimensional studio area; three credits in one other studio area (drawing, fabric surface design, graphic arts, painting, or printmaking); three credits in one other studio area; and the capstone exhibit project.

ART, MINOR IN 3-D STUDIO 21 credits

Required: ART 121 or ART 122; ART 126; three credits in art history or ART 110; nine credits in one three-dimensional studio area (ceramics, weaving and fiber sculpture, sculpture, or jewelry); three credits in one other studio area; and the capstone exhibit project.

ART, MINOR IN ART HISTORY 18 credits

Required: ART 110, 211, 212; nine additional credits in art history.

Art Courses

- ART 110: THE VISUAL ARTS** **3 s.h.**
 Introduces art appreciation. Deals with the form and content of art as well as the processes and products of art. Enriches the student's awareness and understanding of visual art forms. Each semester.
- ART 121: DRAWING I** **3 s.h.**
 Develops the drawing skills of students. Emphasizes observation, analysis, basic pictorial composition, and spatial organization. Students draw primarily from direct observation, exploring a variety of drawing media, processes, and attitudes. Required of all art majors. Each semester.
- ART 122: FIGURE DRAWING I** **3 s.h.**
 Develops students' knowledge of human anatomy. Emphasizes an intuitive approach to recording the figure. Students work directly from the skeleton and models, analyzing the figure, and exploring a variety of media and pictorial problems. Required of all art majors. Each semester.
- ART 125: COLOR AND DESIGN** **3 s.h.**
 A study of two-dimensional design concepts and their applications. Emphasizes the principles and elements of design. Required of all art majors. On demand.
- ART 126: THREE-DIMENSIONAL DESIGN** **3 s.h.**
 Explores three-dimensional design forms to gain a deeper understanding of the elements and principles of design. Required of all art majors. Each semester.
- ART 131: PAINTING I** **3 s.h.**
 Introduces painting in oils. Students explore basic materials and techniques of painting. Stresses fundamentals of pictorial organization and visual expression. Prerequisite: ART 121 or 125. Each semester.
- ART 141: SCULPTURE I** **3 s.h.**
 Studio course offers experiences in conceiving and creating three-dimensional sculptural forms in a variety of media with a variety of techniques. Each semester.
- ART 145: ILLUSTRATION I** **3 s.h.**
 Entry-level studio course introduces students to a variety of drawing and painting media. Industry standard computer software is also taught. Encourages use of the principles of design, creative problem-solving, and the integration of illustrations into designed pieces. Each semester.
- ART 151: CERAMICS I** **3 s.h.**
 Students design and construct clay pieces in varied techniques and approaches. Includes basic clay and glaze technology, ceramic history, hand building, throwing, turning, and firing processes. Each semester.
- ART 155: GRAPHIC DESIGN AND COMPUTER I** **3 s.h.**
 Introduces graphic design, typography, and computer graphic modes and functions. Focuses on state-of-the-art industry software and creativity. Prerequisite: ART 125. Each semester.
- ART 161: WEAVING AND FIBER SCULPTURE I** **3 s.h.**
 Woven and off-loom textile construction; applying design principles in original art making, with attention to the multicultural historical context of textile art traditions. On demand.
- ART 165: FABRIC SURFACE DESIGN I** **3 s.h.**
 Patterning of cloth with direct printing techniques and shibori (tie-dyeing); applying design principles in original art making, with attention to the multicultural historical context of textile art traditions. On demand.
- ART 171: PRINTMAKING I** **3 s.h.**
 Includes a brief history of printmaking and present problems in composition utilizing basic techniques, materials, and principles of printmaking. Students work with printmaking processes such as relief, intaglio, lithography, or monotype. May include photographic and computer processes. Options vary each semester. Each semester.
- ART 181: JEWELRY I** **3 s.h.**
 Design and construction of individual pieces of jewelry from various metals, semi-precious stones, exotic woods, and other materials. Deals with soldering, casting, supplemental techniques, and various methods of fabricating jewelry. Annually.
- ART 211: SURVEY OF ANCIENT THROUGH MEDIEVAL ART** **3 s.h.**
 Surveys the art and architecture of the western world from prehistory to the Proto-Renaissance. Fall semester and on demand.
- ART 212: SURVEY OF RENAISSANCE THROUGH MODERN ART** **3 s.h.**
 Surveys the art and architecture of Europe and America from the Renaissance to the present. Spring semester and on demand.
- ART 215: AFRICAN TRADITIONS IN ART** **3 s.h.**
 Introduces traditional sculpture, masks, crafts, and other arts of selected Sub-Saharan African groups, and African American artists. Develops students' understanding of the meaning and cultural context of the art through hands-on experience in related art processes and a required museum trip. On demand.

- ART 216: *WOMEN IN ART* 3 s.h.**
Explores the achievements of women artists; images of women in art; the role of women in art history, theory, and criticism; and the museum and gallery environments as they relate to women. On demand.
- ART 217: *LATIN AMERICAN ART* 3 s.h.**
An introduction to selected art traditions in the Spanish and Portuguese and French-speaking western hemisphere, including ancient, medieval, and contemporary examples. Contributions of native African, European, and other cultures will be considered.
- ART 222: *DRAWING II* 3 s.h.**
Continues exploration of a variety of drawing media and techniques in order to solve more complex pictorial and spatial problems. Encourages development of individualized responses. Offered concurrently with ART 121. Prerequisites: ART 121, 122. Each semester.
- ART 223: *FIGURE DRAWING II* 3 s.h.**
Continues exploring the figure and its expressive potential. In-depth analysis of anatomy, including musculature and surface features. Expanded media and problem solving. Offered concurrently with ART 122. Prerequisites: ART 121, 122. Spring semester.
- ART 232: *PAINTING II* 3 s.h.**
Continues exploring a range of techniques, emphasizing solving visual and color problems as a vehicle for personalized expression. Prerequisite: ART 131. Each semester.
- ART 242: *SCULPTURE II* 3 s.h.**
Continues and expands experiences and directions established in Sculpture I. Prerequisite: ART 141. Each semester.
- ART 246: *ILLUSTRATION II* 3 s.h.**
Utilizes skills and knowledge acquired from Level I to produce portfolio quality pieces. Emphasizes the creative process and advanced software knowledge. Offered concurrently with ART 145. Prerequisite: ART 145. Each semester.
- ART 252: *CERAMICS II* 3 s.h.**
Students work with the technical aspects of ceramics-glaze formulation, experiment with natural local clays and desired clay bodies, decorating methods, glazing, and firing techniques while pursuing individual interests. Students work on an independent level investigating interests leading to a final individual critique of work accomplished. Prerequisite: ART 151. Each semester.
- ART 256: *GRAPHIC DESIGN AND COMPUTER II* 3 s.h.**
Continues exploring layout, typography, and computer graphics. Students build on the skills and knowledge acquired from Level I to produce portfolio quality pieces. Emphasizes advanced computer software techniques. Offered concurrently with ART 155. Prerequisite: ART 155. Each semester.
- ART 262: *WEAVING AND FIBER SCULPTURE II* 3 s.h.**
Continues study of textile structure and processes in historical context. Develops compositional skills and expressive personal imagery. Prerequisite: ART 161. On demand.
- ART 266: *FABRIC SURFACE DESIGN II* 3 s.h.**
Direct, immersion, and printed application of dyes; development of compositional skills and expressive personal imagery; attention to the historical context of textile art traditions. Prerequisite: ART 165. On demand.
- ART 272: *PRINTMAKING II* 3 s.h.**
Enhances the skills and understanding students have of printmaking as a creative visual tool using relief, intaglio, lithography, and/or monotype processes. Photographic and computer processes may also be included. Prerequisite: ART 171. Each semester.
- ART 282: *JEWELRY II* 3 s.h.**
Continues study in the design and construction of jewelry pieces. Students continue advancing their skills and knowledge of metals, stones, woods, and other materials. Prerequisite: ART 181. Annually.
- ART 300: *SPECIAL TOPICS IN ART***
Topics of interest in various areas of art. The instructor selects the format. Offered when faculty are available.
- ART 312: *ITALIAN RENAISSANCE ART* 3 s.h.**
Surveys the art and architecture of the Italian Renaissance from the Italo-Byzantine style to the advent of the Baroque. Prerequisite: None—ART 212 suggested. Alternate Fall semesters or on demand.
- ART 313: *NINETEENTH-CENTURY ART* 3 s.h.**
Surveys the art and architecture of Europe and America in the 19th century from Romanticism through Art Nouveau. Prerequisite: None—ART 212 suggested. Alternate Fall semesters or on demand.
- ART 314: *TWENTIETH-CENTURY ART* 3 s.h.**
Surveys the art and architecture of Europe and America in the 20th century, its historical and cultural context, and the development of modernism and postmodernism. Spring semester, biannually, and on demand.
- ART 315: *ORIENTAL ART* 3 s.h.**
Surveys the art and architecture of the Far East from prehistory to the 20th century. Prerequisite: None—ART 110 suggested. Alternate Spring semesters or on demand.
- ART 316: *ITALIAN CINEMA* 3 s.h.**
A survey of Italian film from post-war Neorealism to the present. Includes study of the most important directors and viewing of exemplary films during the period. Attendance at out-of-class screenings required. No prerequisite. On demand.
- ART 317: *ART & ARCHITECTURE OF ANCIENT GREECE* 3 s.h.**
Explores the visual art and architecture of the ancient Aegean world, including the Cycladic cultures, the Minoans and Mycenaean, and particularly Archaic, Classical, and Hellenistic Greece. Includes consideration of the cultural context of the art and basic principles of ancient archaeology.

- ART 323: DRAWING III** **3 s.h.**
Encourages integration of individual expressive and conceptual concerns into drawing. Expands media and processes applicable to drawing, including the use of color media. Includes investigation of current as well as historical drawing practices. Offered concurrently with ART 121, 222. Prerequisite: ART 222. Each semester.
- ART 324: FIGURE DRAWING III** **3 s.h.**
Integrates the student's expressive concerns with knowledge of the figure. Investigates figures in a historical context and current trends in figure drawing. Continues exploring media. Offered concurrently with ART 122, 223. Prerequisite: ART 223. Spring semester.
- ART 333: PAINTING III** **3 s.h.**
Individual expression and problem solving take an increasingly important role as the student focuses on a personal aesthetic direction. Encourages experimentation with various mediums and surfaces. Assignments given as needed. Regular critiques. Prerequisite: ART 232. Each semester.
- ART 343: SCULPTURE III** **3 s.h.**
Continues and expands directions established in Sculpture II. Prerequisite: ART 242. Each semester.
- ART 347: ILLUSTRATION III** **3 s.h.**
Incorporates all previous knowledge acquired in Levels I and II. Encourages students to develop their personal aesthetic and to produce portfolio quality pieces. Offered concurrently with ART 145. Prerequisite: ART 246. Each semester.
- ART 353: CERAMICS III** **3 s.h.**
Students explore the fundamentals of glaze tests, materials tests, eutectics, the calculation of glazes, ceramic kilns, and their design. Students study materials used, and the design of ceramic equipment and its special uses. Concentrates on technical aspects and equipment used in ceramic production. Prerequisite: ART 252. Restricted to art majors/minors or permission of instructor. Each semester.
- ART 357: GRAPHIC DESIGN AND COMPUTER III** **3 s.h.**
Incorporates all previous knowledge acquired in Levels I and II, including proficiency in advanced software. Encourages students to develop their personal direction and to produce portfolio quality pieces. Offered concurrently with ART 155. Prerequisite: ART 256. Each semester.
- ART 363: WEAVING AND FIBER SCULPTURE III** **3 s.h.**
Advanced study of hand and computerized/mechanized textile construction processes in historical context. Development of portfolio and facility with the language of art. Prerequisite: ART 262. On demand.
- ART 367: FABRIC SURFACE DESIGN III** **3 s.h.**
Advanced study of hand and computerized/mechanized surface design processes in historical context. Development of portfolio and facility with the language of art. Prerequisite: ART 266. On demand.
- ART 373: PRINTMAKING III** **3 s.h.**
Advanced problems in color and creative expression utilizing techniques and principles of intaglio, relief, lithography, and monotype. (The student is encouraged to focus on two processes.) May include exploration of photographic and computer applications for printmaking. Prerequisite: ART 272. Each semester.
- ART 383: JEWELRY III** **3 s.h.**
Continues study of the design and creation of jewelry and metalwork, emphasizing development of an individual aesthetic through the use of multiple techniques and processes. Prerequisite: ART 282. Annually.
- ART 414: TOPICS IN CONTEMPORARY ART** **3 s.h.**
Introduces contemporary art and theory, covering art and artists from the 1950s to the present. Deals with the conceptual issues facing today's artists and introduces the main currents in critical theory. The course is aimed at students who have a strong interest in contemporary art, are interested in recent critical theory and its applications in visual art, or are artists or other students in the humanities planning to attend graduate school.
- ART 424: DRAWING IV** **3 s.h.**
Provides opportunity for students to explore a drawing concern(s) of their own in depth. Offered concurrently with ART 121, 122, 222, 323. Prerequisite: ART 323. Each semester.
- ART 425: FIGURE DRAWING IV** **3 s.h.**
Tutorial approach allows students maximum freedom in exploring the figure in their own context. Offered concurrently with ART 122, 223, 324. Prerequisite: ART 324. Each semester.
- ART 426: SENIOR DRAWING** **3 s.h.**
Capstone course allows students concentrating in drawing to develop their work for the B.F.A. exhibit. Offered concurrently with other drawing courses. Prerequisites: ART 424 and 425. Each semester.
- ART 434: PAINTING IV** **3 s.h.**
Continues investigation of aesthetic concepts and personal direction. Students work toward a portfolio or entrance into a M.F.A. Program. Regular critiques. Prerequisite: ART 333. Each semester.
- ART 435: PAINTING V** **3 s.h.**
Continuation of Painting IV. Prerequisite: ART 434. Each semester.
- ART 436: PAINTING VI** **3 s.h.**
Continuation of Painting V. Prerequisite: ART 435. Each semester.
- ART 444: SCULPTURE IV** **3 s.h.**
Continuation of Sculpture III. Prerequisite: ART 343. Each semester.

- ART 445: SCULPTURE V** **3 s.h.**
Continuation of Sculpture IV. Prerequisite: ART 444. Each semester.
- ART 446: SCULPTURE VI** **3 s.h.**
Continuation of Sculpture V. Prerequisite: ART 445. Each semester.
- ART 448: ILLUSTRATION IV** **3 s.h.**
Encourages students to develop their personal aesthetic and produce portfolio quality pieces. Intermediate-level course emphasizes business aspects of illustration. Offered concurrently with ART 145. Prerequisite: ART 347. Each semester.
- ART 449: ILLUSTRATION V** **3 s.h.**
Students develop a portfolio geared toward their particular skills and interests. Students entering this advanced-level course should have a solid creative and technical background in illustration. Students can seek their own clients at this time so they have printed pieces in their professional portfolios. Offered concurrently with ART 145. Prerequisite: ART 448. Each semester.
- ART 450: ILLUSTRATION VI** **3 s.h.**
Students develop a portfolio geared toward their particular skills and interests. Students entering this advanced-level course should have a solid creative and technical background in illustration. Students can seek their own clients at this time so they have printed pieces in their professional portfolios. Offered concurrently with ART 145. Prerequisite: ART 449. Each semester.
- ART 454: CERAMICS IV** **3 s.h.**
Students work and set goals in their own creative interests for a semester of work. Students who choose hand building or thrown pottery begin work toward a portfolio for a career or entrance into a M.F.A. Program. Prerequisite: ART 353. Restricted to art major/minors or permission of instructor. Each semester.
- ART 455: CERAMICS V** **3 s.h.**
Continuation of Ceramics IV. Prerequisite: ART 454. Each semester.
- ART 456: CERAMICS VI** **3 s.h.**
Continuation of Ceramics V. Prerequisite: ART 455. Each semester.
- ART 458: GRAPHIC DESIGN AND COMPUTER IV** **3 s.h.**
Encourages students to develop personal direction and produce portfolio quality pieces. Intermediate-level course explores software. Offered concurrently with ART 155. Prerequisite: ART 357. Each semester.
- ART 459: GRAPHIC DESIGN AND COMPUTER V** **3 s.h.**
Students develop a portfolio geared toward their particular skills and interests. Students can seek their own clients at this time so they have printed pieces in their professional portfolios. Advanced-level course emphasizes advanced software competency. Students should have a solid creative and technical background in computer graphics and graphic design. Offered concurrently with ART 155. Prerequisite: ART 458. Each semester.
- ART 460: GRAPHIC DESIGN AND COMPUTER VI** **3 s.h.**
Professional portfolios are reviewed at the beginning of the course, and weak projects are replaced with higher quality pieces. Stresses business skills, especially promotional pieces. Students entering this advanced-level course should have a solid creative and technical background in computer graphics and graphic design. Offered concurrently with ART 155. Prerequisite: ART 459. Each semester.
- ART 464: WEAVING AND FIBER SCULPTURE IV** **3 s.h.**
Advanced studio production and study of textile construction history and techniques; continued development of portfolio through regular critiques. Prerequisite: ART 363. On demand.
- ART 465: WEAVING AND FIBER SCULPTURE V** **3 s.h.**
Preparation for B.F.A. exhibition and continued development of portfolio. Prerequisite: ART 464. On demand.
- ART 466: WEAVING AND FIBER SCULPTURE VI** **3 s.h.**
Preparation for B.F.A. exhibition and continued development of portfolio. Prerequisite: ART 465. On demand.
- ART 468: FABRIC SURFACE DESIGN IV** **3 s.h.**
Advanced studio production and study of surface design history and techniques; continued development of portfolio through regular critiques. Prerequisite: ART 367. On demand.
- ART 469: FABRIC SURFACE DESIGN V** **3 s.h.**
Preparation for B.F.A. exhibition and continued development of portfolio. Prerequisite: ART 468. On demand.
- ART 470: FABRIC SURFACE DESIGN VI** **3 s.h.**
Preparation for B.F.A. exhibition and continued development of portfolio. Prerequisite: ART 469. On demand.
- ART 474: PRINTMAKING IV** **3 s.h.**
Emphasizes development of individualized approaches to printmaking relevant to the student's personal aesthetic and conceptual interests. Focuses on lithographic, relief, intaglio, monotype, or photographic print processes. Evidence of refined technical skills is expected. Prerequisite: ART 373. Each semester.
- ART 475: PRINTMAKING V** **3 s.h.**
Continuation of Printmaking IV. Emphasizes development of a cohesive portfolio. Prerequisite: ART 474. Each semester.
- ART 476: PRINTMAKING VI** **3 s.h.**
Continuation of Printmaking V. Focuses on preparation of the B.F.A. exhibition. Prerequisite: ART 475. Each semester.



Biology

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Professors: Barnes, Eggleton, Harris, D. Smith, Turner, Williams;

Associate Professor: Keth

Assistant Professors: Bennett, Lott, Scott

The Department of Biology offers students several degree options depending on interest and long-term career goals. Four Bachelor of Science degrees are offered: biology, environmental biology, medical technology, and molecular biology/biotechnology. The major requirements for all degrees are similar in the first two years, allowing students to switch between degree options and to readjust career objectives. All degrees are designed to prepare the student for success in the job market or pursuing advanced studies. For those students interested in a career in teaching, the Biology Department offers a secondary education—biology degree and a secondary education—general science degree through the Department of Education. Also available is a Teaching Certificate in Environmental Education for grades K–12. The Biology Department offers a variety of programs in the health careers including pre-medical, pre-veterinary, pre-chiropractic, and pre-dental. The necessary training to pursue other careers in the health sciences is also available through the Pre-Professional Program. Students more interested in ecology may choose the ecology and evolutionary biology concentration within the biology B.S. degree, or they may choose from concentrations in terrestrial ecology or freshwater ecology within the environmental biology degree. Three minors, two in biology, with options in either cellular/organismal biology or ecology/evolutionary biology, and one in biotechnology are available to non-majors interested in a more in-depth study of these aspects of biology. There is also an opportunity for students to continue their education within the Biology Department by pursuing a Master of Science

degree in biology. There are thesis and non-thesis options as well as an environmental science concentration offered cooperatively through both the Department of Biology and the Department of Anthropology, Geography, and Earth Science (AGES). Whatever the degree or interest, the faculty in the Biology Department are committed to helping students reach their professional goals.

BIOLOGY, B.S.53-69 credits

Required: BIOL 155/165, 156/166, 201, 202, 203, 382, and five courses (15 to 20 credits) from approved biology electives.

In addition to these 35 to 41 credits in biology, the following supplemental courses are required: MATH 221 or 222 or BIOL 402, and 260 or 270; CHEM 153, 163, 154, 164, 251, 252, 261, 262 and one additional chemistry elective, excluding CHEM 205 and 211, in some instances, students may be advised to substitute CHEM 151, 161, 152, and 162 for CHEM 153, 163, 154, and 164; PH 251 and 252.

ENVIRONMENTAL BIOLOGY, B.S.56-72 credits

Required: BIOL 155/165, 156/166, 201 or 341, 202, 405, 493 or 494. A 3-credit field experience competency is required, which can be fulfilled by completing one of the following: ANTH 375, BIOL 410 or 499, COOP 308/408, or ES 455. Also required are 12 to 16 credits of electives including at least 3 credits from each of the following categories: Freshwater Ecology: BIOL 341, 382, 400, 402, 425, 451, 456, 473, 492, 493, 494, 497, 499, COOP 308/408, ES 400, 425, 470; Terrestrial Ecology: BIOL 341, 353, 382, 400, 402, 427, 451, 456, 470, 471, 492, 493, 494, 499, COOP 308/408, ES 400, 425, 470. Concentrations are also available for Freshwater Ecology or Terrestrial Ecology. In addition to these 36 to 41 credits in environmental biology, the following supplemental courses are required: MATH 171 (or MATH 260 or 270), 221 or 222 or BIOL 402, ES 150, 260, 280 or 320 or 330, 400 or 470, CHEM 153, 154, 163, 164, 254, 264, and 351, 361, in some instances, students may be advised to substitute CHEM 151, 162, 152, and 162 for CHEM 153, 163, 154, and 164.

MOLECULAR BIOLOGY AND BIOTECHNOLOGY, B.S. ...60-71 credits

Required: BIOL 155/165, 156/166, 201, 203, 341, 450, 481, 483, 485, 495, 496, and six to eight credits from approved biology electives. In addition to these 41 to 43 credits in biology, the following supplemental courses are required: MATH 221

or 222 or BIOL 402, and 260 or 270, CHEM 153, 163, 154, 164, 251, 261, 252, 262, 453, 463, in some instances, students may be advised to substitute CHEM 151, 161, 152, and 162 for CHEM 153, 163, 154, and 164.

MEDICAL TECHNOLOGY, B.S.62-70 credits

The Medical Technology Program includes an academic preparation of three years (88 semester hours including general education) at Clarion and a 12-month course of clinical study in a hospital-based school of medical technology accredited by the National Accrediting Agency for Clinical Laboratory Sciences, (NAACLS), (32 semester hours). Upon successful completion of two years of prescribed courses at Clarion, the student is eligible to apply for admission to the hospital school. Although application is made through the office of the coordinator of medical technology at Clarion, acceptance is at the discretion of the staff of the clinical school. Clinical school spaces are limited, and admission to the Medical Technology Program at Clarion does not guarantee admission to the clinical school year. Clarion University maintains affiliations with six clinical schools, students may apply to accredited, non-affiliated schools, also. After graduation from Clarion University the student is eligible to take any of several certification examinations. Successful completion of the exam permits practice of the profession in most of the United States. A few states require a state examination for licensure. Further information on the exams can be obtained from the coordinator of medical technology. The following courses are required during the three years at Clarion: BIOL 155, 156, 165, 166, 201, 203, 341, 444; CHEM 153, 163, 154, 164; eight additional hours of chemistry chosen from CHEM 251, 252, 254, 261, 262, 264, 351, 353, 358, 361, 363, 368, 453, 463; either BIOL 203 or CHEM 453; and MATH 171, and 221 or 222. Substitutions for the above courses must be approved in writing by the coordinator of medical technology. Students in the program must maintain the following grade-point averages: first semester freshmen, 2.0 overall; second semester freshmen and first semester sophomores, 2.5 overall; thereafter 2.5 overall with a 2.5 in the natural sciences. Exceptions to these requirements must be approved by the coordinator of medical technology. Specific information about courses, standards, and requirements established by the affiliate hospital schools are provided to enrolled students by the coordinator of medical technology. Students wishing to transfer into the program must be approved by the coordinator of medical technology and must plan to spend two years on the Clarion Campus. Hospital affiliates are Altoona Hospital, Altoona, Pa.; Susquehanna Health Systems, Williamsport, Pa.; Saint Vincent Health Center, Erie, Pa.; Guthrie Health Systems, Sayre, Pa.; Conemaugh Health System, Johnstown, Pa.; Women's Christian Association Hospital, Jamestown, N.Y.

SECONDARY EDUCATION, B.S.ED.

Certification for grades K-12, Biology (see under Secondary Education, Biology), page 173.

ECOLOGY AND EVOLUTIONARY BIOLOGY, CONCENTRATION WITHIN THE B.S. BIOLOGY63-72 credits

The concentration is designed for those biology students interested in Ecology and Evolutionary Biology, but desiring a means of maximizing their efforts in the applied aspects of the field.

Required: BIOL 155/165, 156/166, 201, 202, 203, 382, 493 or 494 and 12 to 14 credits from approved biology electives. In addition, the following courses are required: CHEM 153/154, 163/164, CHEM 251/261, 252/262, in some instances, students may be advised to substitute CHEM 151, 161, 152, and 162 for CHEM 153, 163, 154, and 164, and one additional chemistry elective excluding CHEM 205 and 211; MATH 221 or 222 or

BIOL 402, and 260 or 270, PH 251 and 252, and six credits of electives in the sciences.

BIOLOGY MINOR, CELLULAR/ORGANISMAL

BIOLOGY TRACK18-20 credits

This program is designed to provide students who are in other majors but require a general knowledge of the fundamental concepts of biology, but with a focus on cellular/organismal biology aspects. These students will be provided with additional skills and experience to enhance their education.

Required: BIOL 155/165, 201, 203, and 8-10 credits from the following: BIOL 341, 382, 444, 446, 450, 451, 455, 460, 461, 464, 483, and 485.

BIOLOGY MINOR, ECOLOGY/EVOLUTIONARY

BIOLOGY TRACK18-20 credits

This program is designed for students who are in other majors but require a general knowledge of the fundamental concepts of biology, but with a focus on ecology/evolutionary biology aspects. These students will be provided with additional skills and experience to enhance their education.

Required: BIOL 156/166, 202, and 11-12 credits from the following: BIOL 382, 402, 425, 427, 428, 432, 456, 471, 473, 492, 493, 494, or 495.

BIOTECHNOLOGY MINOR18-19 credits

The minor in biotechnology serves to provide students in chemistry, physics, pre-engineering, mathematics, computer science, business management, finance, and marketing with a working knowledge of biotechnology. The minor provides these students with the cross-disciplinary experience to apply the expertise from the majors in the emerging fields of science and commercial technology.

Required: BIOL 155/165, 201, 341, 483, and 3-4 credits from the following: BIOL 444, 450, 464, 481, 485, or CHEM 453.

Center for Natural Resources and the Environment

Housed in the Department of Biology, the Center for Natural Resources and the Environment serves as a focal point for regional environmental studies, coordinates environmental outreach activities, and promotes partnerships with various public and private agencies interested in the environment. The center is a nucleus for research and education on environmental resource science and stewardship focused on the land, air, and water resources of the Allegheny Plateau ecoregion of western Pennsylvania.

Environmental Studies

The Environmental Studies program introduces students to environmental problems confronting contemporary society and examines these problems from a multidisciplinary point of view. Students have the opportunity to learn the role of science in various environmental situations, as well as management policies. The Departments of Physics, Anthropology, Geography and Earth Sciences (AGES), Chemistry, Biology and the Science Education program are participants in the Environmental Studies program. As well, Clarion University is a member of the Crooked Creek Environmental Learning Center, a consortium of universities, colleges, school districts, and state, federal, and private environmental agencies and organizations interested in environmental education. The center is located at Crooked Creek Lake, in Ford City.

PRE-PROFESSIONAL STUDIES IN HEALTH CAREERS

The Biology Department offers a number of programs specifically designed to prepare students planning to enter a professional school in the healing arts, including pre-chiropractic, pre-dentistry, pre-medicine, pre-optometry, pre-pharmacy, pre-veterinary, and pre-podiatry. Qualified biology majors interested in a career in medicine have a unique opportunity to complete their senior year of college, while beginning their medical training through a “3+4” affiliation agreement with Lake Erie College of Osteopathic Medicine (LECOM) in Erie, Pa. Another affiliation agreement with the Lake Erie College of Osteopathic Medicine (LECOM) School of Pharmacy provides qualified students with the option of pursuing a “2+3” accelerated pharmacy program. Those students interested in pursuing a career in chiropractic have the opportunity of a “3+4” program with Logan College of Chiropractic in Chesterfield, Mo. For more details on these programs, see page 134.

Pymatuning Laboratory of Ecology

Through a unique cooperative program with the University of Pittsburgh, Clarion University offers a program of study in field ecology at the Pymatuning Laboratory of Ecology. Courses are taught by faculty from cooperating institutions. Sessions at Pymatuning are open to undergraduate and graduate student, are three weeks in length, and students normally reside on site.

The Pymatuning Laboratory of Ecology (PLE) is a field station dedicated to environmental education and ecological research. In PLE courses, direct observation and hands-on experience with living organisms under field conditions are combined with modern laboratory and computer techniques in the discovery of structure and function in ecological systems. PLE is located within Pymatuning State Park and overlooks

Sanctuary Lake, part of an 11,000 acre tract of water, wetlands, and forest. The region contains many natural lakes, marshes, streams, and intact forests, making it an ideal location to study field biology.

Regional Science Consortium

Located at the Tom Ridge Center at Presque Island, Clarion University’s membership in the consortium allows students and faculty access to research and educational facilities on Lake Erie.

SECONDARY EDUCATION—BIOLOGY/GENERAL SCIENCE

The Biology Department offers in conjunction with the Education Department a program in Secondary Education—Biology. (page 173 for more details). Also available is a multidisciplinary secondary education degree in general science (page 173 for details). A Teaching Certificate in Environmental Education Grades K-12 is also available.

**Biology Courses****BIOL 111: BASIC BIOLOGY****3 s.h.**

Deals with the principles of biology. Includes cellular structure and physiology, growth and repair, reproduction and development, control, sources of food energy, inheritance, and people’s interrelationship with their biological environment. Briefly reviews the classification of plants and animals. Credit not to be applied toward biology major. Each semester.

BIOL 115: INTRODUCTORY BIOLOGY**4 s.h.**

A basic course in biology for non-science majors. Includes cellular structure and function, molecular biology, genetics, survey of organisms, evolution, and ecology. Divided into two hours of lecture and a two-hour instruction/laboratory/discussion/recitation session weekly. Credit not to be applied toward the biology major. Each semester.

BIOL 125: INTRODUCTION TO FORENSIC SCIENCE**2 s.h.**

A basic course in forensic science for non-majors, combining field techniques in forensic ecology and taphonomy with laboratory techniques in molecular biology and biotechnology. Credit not to be applied toward biology major. Summer, annually; Fall, on demand.

BIOL 150: INSECTS AND SOCIETY

A basic course in insects and their interactions with human society. Includes insect diversity, insect structure and function, insect biology, and both insect benefits and damage. Three lecture hours weekly. Credit not to be applied toward biology major. Alternate years.

BIOL 155: PRINCIPLES OF BIOLOGY I**3 s.h.**

Introduces fundamental concepts of biology focusing on the characteristics of living things, cell function, biological information, storage and retrieval, and organismal structure and function. Presents concepts in the context of current evolutionary theory. Three hours lecture weekly. For biology majors. All science, science education, and biology majors must concurrently register for BIOL 165. Fall, annually.

BIOL 156: PRINCIPLES OF BIOLOGY II**3 s.h.**

Introduces fundamental concepts of biology focusing on organismal structure and function, adaptation, behavior, and ecology in the context of current evolutionary theory. Three hours lecture weekly. For biology majors. All science, science education, and biology majors must concurrently register for BIOL 166. Spring, annually.

- BIOL 165:** *PRINCIPLES OF BIOLOGY I LABORATORY* **1 s.h.**
Laboratory exercises augment and integrate course material emphasized in BIOL 155. Three hours laboratory weekly. For biology majors. Must be taken concurrently with BIOL 155 unless it is being repeated. Fall, annually.
- BIOL 166:** *PRINCIPLES OF BIOLOGY II LABORATORY* **1 s.h.**
Laboratory exercises augment and integrate course material emphasized in BIOL 156. Three hours laboratory weekly. For biology majors. Must be taken concurrently with BIOL 156 unless it is being repeated. Spring, annually.
- BIOL 200:** *SELECTED TOPICS IN BIOLOGY* **1-3 s.h.**
Provides for focused study of a special interest topic in biology using different learning formats selected by the instructor as best suited for the particular course. May be offered in any semester, subject to demand and staff availability. Not for biology majors.
- BIOL 201:** *GENETICS* **3 s.h.**
A study of the principles of inheritance in plants and animals, including humans. Topics include Mendelian genetics, linkage recombination, cytogenetics, and molecular genetics. Three lecture hours and one laboratory hour weekly. Prerequisites: Completion of BIOL 155, 156, 165, and 166, with a grade of C or better and one semester of organic chemistry or permission of instructor. Fall and Spring, annually.
- BIOL 202:** *PRINCIPLES OF ECOLOGY* **3 s.h.**
Examines the interaction of organisms and their biotic and abiotic environment, population dynamics and interactions, community structure and function, and ecosystem energetics and biogeochemistry. Two lecture and three laboratory hours weekly. Prerequisites: Completion of BIOL 155, 156, 165, and 166, with a grade of C or better or permission of instructor. Fall and Spring, annually.
- BIOL 203:** *CELL BIOLOGY* **3 s.h.**
Examines structure, biochemistry, and function of plant and animal cells. Three lecture and two laboratory hours weekly. Prerequisites: Completion of BIOL 155, 156, 165, and 166, with a grade of C or better or permission of instructor. Fall and Spring, annually.
- BIOL 211:** *ENVIRONMENTAL BIOLOGY* **3 s.h.**
Examines the complexity and function of natural ecosystems. Includes an exploration of the basic biological principles that govern the natural world, and considers the many ways in which humans affect the environment. Two hours lecture/discussion and three hours field trips/activities weekly. Credit not to be applied toward a biology major or biology education certification.
- BIOL 224:** *HUMAN BIOLOGY* **3 s.h.**
Focuses on the biology of the human organism. Recent scientific and medical advances as they relate to the development of public policy are interwoven through topics covered. The biology of our aging human population including issues such as infection, autoimmunity, and cancer, as well as respiratory, cardiovascular, and urinary system decline, will be discussed. Credit not to be applied toward a biology major or biology education certification.
- BIOL/GS 225:** *HUMAN GENETICS* **3 s.h.**
Mendelian genetics and the inheritance of human genetic disease. Examines the anatomical, physiological, biochemical, and genetic basis of human diseases, including diabetes, atherosclerosis, and cancer, and the genetic component of mental illness. Analyzes behavioral genetics, sociobiology, recombinant DNA, "gene therapy," and medical ethics. Non-major course for students who wish to know more about human genetics than is available in basic biology. Particularly useful for students in anthropology, rehabilitative sciences, psychology, sociology, and special education. Prerequisite: One semester of biology or permission of instructor. Annually.
- BIOL 258:** *ANATOMY AND PHYSIOLOGY I* **3 s.h.**
Analyzes the normal structure of the human body and how it functions. Focuses on the reproductive, skeletal, muscular, nervous, and endocrine systems and their interrelationships. Three lecture and two lab hours weekly. Fall, annually. Not for biology majors.
- BIOL 259:** *ANATOMY AND PHYSIOLOGY II* **3 s.h.**
Continuation of BIOL 258, Anatomy and Physiology I. Includes the circulatory, respiratory, digestive, urinary, and integumentary systems and their interrelationships. Three lecture and two laboratory hours weekly. Prerequisite: BIOL 258. Spring, annually. Not for biology majors.
- BIOL 260:** *MICROBIOLOGY* **3 s.h.**
Examines microorganisms, including viruses, bacteria, fungi, and protozoa, emphasizing those associated with human health and disease. Considers immunity and resistance to infectious diseases and to their epidemiological and public health aspects. Laboratory emphasizes pathogenic bacteria and the bacteriological and microscopic techniques. Two lecture and three laboratory hours weekly. Not for biology majors. Pittsburgh Campus, annually.
- BIOL 301:** *MARINE INVERTEBRATES* **3 s.h.**
Introduces students to the taxonomy, structure, function, and ecology of marine invertebrates, emphasizing specializations which have allowed these animals to exploit a wide variety of marine habitats. Major trends in invertebrate evolution will be used to illustrate the development of form and function in these animals. Prerequisites: Completion of two semesters of introductory biology. Completion of a course in general zoology is desirable. Summer, on demand.
- BIOL 305:** *GENERAL ZOOLOGY* **3 s.h.**
Surveys the animal kingdom. Emphasizes the biology and classification of both invertebrate and vertebrate animals. Covers the role of animals in ecosystems and interrelationships among the various taxa and aspects of morphology, phylogeny, ethology, and zoogeography. Includes special reference to animals occurring in Pennsylvania. Two lecture and three laboratory hours weekly. Prerequisites: Completion of two semesters of introductory biology or permission of instructor. Alternate years.
- BIOL 306:** *GENERAL BOTANY*
A survey of the structure, function, and diversity of non-vascular and vascular plants from an evolutionary perspective. Topics include structure, function, organization, and evolution of plant cells and tissues, photosynthesis and nutrition, water uptake and balance, hormonal control of growth, reproduction, and dispersal, and classification and systematics. Two lecture and three laboratory hours weekly. Prerequisite: Completion of two semesters of introductory biology or permission of instructor. Spring, alternate years.

- BIOL 341: GENERAL MICROBIOLOGY** **4 s.h.**
A study of microorganisms, including bacteria, viruses, fungi. Extensive laboratory work includes isolation, staining, culturing, and identification of microorganisms. Examines prokaryotic cell architecture, microbial physiology, methods of controlling the growth of microbes, microbial genetics, medical microbiology, and applied and environmental microbiology. Two lecture periods and two laboratory periods weekly. Prerequisites: A course in cell biology and one semester of organic chemistry or permission of instructor. Each semester.
- BIOL 360: PROBLEMS IN BIOLOGY** **1-4 s.h.**
Acquaints students with skills and techniques used in research. Students identify a problem for investigation and complete all phases of its study, including writing a research report. Approval from the staff member who will direct the student must be secured before pre-registration.
- BIOL 382: EVOLUTION** **3 s.h.**
Analyzes evolution and its links with other areas of biology. Includes the history of evolutionary thought, species concepts and speciation processes, phylogenetic patterns and their reconstruction, diversity of life, and the mechanisms of evolution. Satisfies the second value flag of the university general education requirements. Three lecture hours weekly. Prerequisite: Completion of two semesters of introductory biology or permission of instructor. Spring, annually.
- BIOL 400: SPECIAL TOPICS** **1-6 s.h.**
Advanced topics in various areas of biology. The professor selects a format most suitable to the study. May be offered on request of students, subject to staff availability. Enrollment by consent of the instructor. On demand.
- BIOL 401: CORAL REEF ECOLOGY** **3 s.h.**
A study of coral reef structure, formation, types, and the relationships of reef organisms to their environment. Emphasis is given to species diversity, identification, symbioses, and effects of temperature, salinity, light, nutrient concentration, predation, and competition on the abundance and distribution of coral reef organisms. Prerequisites: Completion of two semesters of introductory biology. Completion of a course in general zoology is desirable. Summer, on demand.
- BIOL 402: BIOMETRY** **3 s.h.**
Introduction to the collection, analysis, and presentation of biological data. Fundamental aspects of designing and executing descriptive and experimental studies emphasizing biological research. Stresses applications to undergraduate and graduate research in progress in the Department of Biology. Three lecture hours per week. Spring, alternate years.
- BIOL 404: COMPUTATIONAL MOLECULAR BIOLOGY AND BIOINFORMATICS** **3 s.h.**
The new disciplines of genomics, proteomics, and bioinformatics attempt to analyze and make sense of the data generated by the Human Genome Project and other genome projects. The course is an introduction to the computational techniques and algorithms which are used. Topics include database searches, pair-wise and multiple alignments, similarity searching, protein structure, gene mapping, and genomic maps and simulation. This interdisciplinary course will be of interest to students in biology, molecular biology, ecology, evolutionary biology, biochemistry, industrial mathematics, and computational science. Prerequisites: BIOL 201 and MATH 260 or 221 or permission of instructor. No programming experience is necessary, but a facility with computers is assumed. Pre-session, alternate years.
- BIOL 405: ECOLOGICAL APPLICATIONS** **3 s.h.**
Case history approach to the analysis and possible resolution of both terrestrial and aquatic environmental problems. Students analyze problems from a number of perspectives, including the biological, in an assessment of the problem. Incorporates sample design, cost considerations, data collection, and analysis into the assessment. Overall assessment of problems and possible resolutions will be conveyed both orally and in a written format. Intended as a capstone for students in the Applied Ecology Program, but appropriate for other students who meet prerequisites. Satisfies the writing intensive and second values flags of the university general education requirements. Prerequisites: BIOL 202 or permission of the instructor, BIOL 493 and 494 are recommended. Spring, annually.
- BIOL 410: FIELD METHODS IN ENVIRONMENTAL BIOLOGY** **3 s.h.**
A field-based course designed to give students hands-on experience in the various methods needed in environmental studies. The course will focus on the environmental assessment of terrestrial and aquatic habitats and the impacts of perturbations on flora, fauna, and natural landscapes. Summer, on demand.
- BIOL 411: WILDLIFE ECOLOGY AND MANAGEMENT** **3 s.h.**
A study of the ecology and management of mammals, birds, amphibians, and reptiles. Lectures cover population dynamics, estimation, and population viability, sampling techniques, habitats, disease, and both game and non-game management. Labs emphasize wildlife population modeling, habitat assessment using GIS, and evaluation of alternative management strategies. Students will develop their own wildlife management plans. Two hours of lecture and three hours of laboratory weekly. Prerequisite: BIOL 202 or permission of instructor. Fall, alternate years.
- BIOL 421: ECOLOGY OF AQUATIC INSECTS** **3 s.h.**
A study of the ecology, natural history, and classification of aquatic insects, with emphasis on their adaptations and trophic relationships. Two lecture and three laboratory hours weekly. Spring, alternate years.
- BIOL 425: FISHERIES BIOLOGY** **3 s.h.**
Examines ecology of fish populations, including taxonomy identification, age and growth, population estimation and analysis, food habits, management, and environmental requirements. Emphasizes data analysis and application of microcomputers in fisheries work. Two lecture and three hours of laboratory or field work weekly. Prerequisites: Completion of a course in ecology or permission of instructor and PA fishing license required. Alternate years.
- BIOL 427/527: FIELD BOTANY** **3 s.h.**
Field-based course stresses the identification, classification, distribution, and evolutionary relationships of vascular plants, emphasizing the flora of western Pennsylvania and adjacent regions. Two hours lecture and three hours laboratory or field work weekly. Prerequisite: Completion of a course in ecology or permission of instructor. Alternate years.

- BIOL 428/528: ORNITHOLOGY** **3 s.h.**
Deals with the biology of birds. Lectures cover topics such as classification, internal and external adaptations for flight, migration, nesting, feeding habits, behavior, ecology, and physiology. Two lectures and three laboratory or field trip hours per week. Prerequisite: Junior or higher standing in biology or permission from the instructor. Alternate years.
- BIOL 432/532: FIELD ORNITHOLOGY** **3 s.h.**
Deals primarily with the identification and natural history of birds of western Pennsylvania. It is taught at a time when migratory species are commonly seen. Although lectures are an important component, indoor and outdoor laboratory activities play a predominant role. Prerequisite: Completion of two semesters of introductory biology or permission of the instructor. Spring, even-numbered years.
- BIOL 443: VIROLOGY** **3 s.h.**
Study of plant, animal, and bacterial viruses, emphasizing biochemistry, structure, life cycles, and disease-causing mechanisms. Three lectures per week. Prerequisites: Biochemistry, general microbiology, or permission of instructor. On demand.
- BIOL 444: IMMUNOLOGY** **4 s.h.**
Examines cellular immunology, immunochemistry, and immunogenetics, emphasizing the physiology of immune responses. Three hours lecture and three hours lab per week. Prerequisite: General microbiology or permission of instructor. Annually.
- BIOL 446: PATHOGENIC MICROBIOLOGY** **4 s.h.**
Analyzes the bacteria, fungi, and viruses that cause human disease. Laboratory emphasizes isolation and identification of pathogens and elementary immunology. Two lecture and four laboratory hours weekly. Prerequisite: General microbiology or permission of instructor. Annually.
- BIOL 450: CELL PHYSIOLOGY** **4 s.h.**
Explores the molecular dynamics of eukaryotic cells. Includes functional and structural organization of the cell, the cell as a unit of inheritance, and the cell as a biochemical transducer. Three lecture sessions and three laboratory hours per week. Prerequisites: CC or better in BIOL 155, 156, 165, 166, and 203 and completion of CHEM 252 and 262 or permission of instructor. Alternate years.
- BIOL 451: ANIMAL PHYSIOLOGY** **3 s.h.**
Study of the comparative physiology of animals, including water and ion regulations, circulation, respiration, nutrition, nervous activity, endocrine functions, and responses to temperature, light, gases, and pressure. Two lecture and three hours laboratory weekly. Prerequisites: Completion of a course in cell biology and one semester of organic chemistry or permission of instructor. Annually.
- BIOL 452: PLANT PHYSIOLOGY** **3 s.h.**
Life processes and responses of plants to the environment. Includes water relations, transpiration, translocation, photosynthesis, respiration, metabolism, plant hormones and morphogenesis, photoperiodism, temperature responses, environmental and stress physiology. Two lectures and three hours laboratory weekly. Prerequisites: Completion of a course in genetics, cell biology, and one semester of organic chemistry or permission of instructor. On demand.
- BIOL 453: PATHOPHYSIOLOGY: ENDOGENOUS AGENTS** **4 s.h.**
Analyzes the mechanisms by which disease occurs in humans. Emphasizes responses to the disease process, and the effects of pathophysiologic mechanisms on the normality of cell, tissue, organ and system functions, and the response of the body to the disease process. Prerequisites: Prior courses in physiology desired. Two years of study in biology or permission of instructor. Venango Campus and Pittsburgh site, annually. Not for biology majors.
- BIOL 454: PATHOPHYSIOLOGY: EXOGENOUS AGENTS** **4 s.h.**
Study of mechanisms by which disease occurs in humans. Emphasizes disease related to heredity, physical, chemical, and biological stresses. Prerequisite: Three semesters of biology required or permission of instructor. Venango Campus, annually. Not for biology majors.
- BIOL 455: ENDOCRINOLOGY** **3 s.h.**
Surveys the chemical and physiological principles of hormonal integrations in animals. Three hours lecture weekly. Prerequisites: Completion of a course in physiology and one semester of organic chemistry or permission of instructor. Annually.
- BIOL 456: ENTOMOLOGY** **3 s.h.**
General study of insects, including structure, physiology, classification, economic importance, and ecology. Two lecture and three hours of laboratory or fieldwork weekly. Prerequisite: Completion of two semesters of introductory biology or permission of instructor. Alternate years.
- BIOL 459: PHYSIOLOGICAL ECOLOGY** **3 s.h.**
Nearly every habitat on earth, from thermal hot springs to polar ice caps, is home to some form of life. Physiological ecology explores the biotic and abiotic challenges to organisms imposed by their environments and adaptations, which allow them to survive in various habitats, both in terms of how organisms physiologically adapt to short-term fluctuations in their environment and how adaptations influence biogeographic distribution and evolutionary success of various species. Topics include adaptations related to temperature, water and salt balance, and gas exchange. Adaptations of organisms to extreme or unusual environments may be considered. Prerequisites: Biol 202, 203, 451, or permission of instructor. Spring, alternate years.
- BIOL 460: COMPARATIVE VERTEBRATE ANATOMY** **3 s.h.**
Traces the most important trends in the evolution of basic structures in vertebrate lines and conveys an appreciation of how the mammals came to possess the combination of characters that make this group unique. Two lectures and three laboratory hours weekly. Prerequisite: Completion of two semesters of introductory biology or permission of instructor. Alternate years.
- BIOL 464: DEVELOPMENTAL BIOLOGY** **3 s.h.**
Study of the major processes in development and their underlying mechanisms. Includes descriptive study and mechanisms such as differentiation, induction, and morphogenesis. Deals primarily with animal development. Two lecture and three laboratory hours weekly. Prerequisites: Completion of two semesters of introductory biology, genetics, and two semesters of general chemistry or permission of instructor. Annually.

- BIOL 470:** **MAMMALOLOGY** **3 s.h.**
 Interrelationships of mammals and the biotic and abiotic environment. Includes discussions and investigations of mammalian distribution, diversity, taxonomy, ecology, and physiology. Includes both field and laboratory studies. Two lecture and three laboratory hours weekly. Prerequisite: A course in ecology or permission of instructor. On demand.
- BIOL 471:** **PLANT ECOLOGY** **3 s.h.**
 In-depth approach to the interaction of plants with the physical and biotic environments at population, community, ecosystem, and landscape scales. Lecture and discussion focus on current topics in plant ecology such as disturbance, succession, herbivory, dispersal, competition, and environmental stress. Laboratory includes field-based experimental and descriptive investigations of plant population and communities. Two hours lecture/discussion and three laboratory hours weekly. Prerequisite: A course in ecology or permission of instructor. On demand.
- BIOL 473:** **FRESHWATER ECOLOGY** **3 s.h.**
 An in-depth approach to the structure, function, and dynamics of forest ecosystems at multiple scales. Lecture and discussion focuses on current topics in forest ecology and management such as major forest types and climate influence of physical factors like soils and hydrology on forest ecosystem function, the importance of disturbance, herbivores, and pathogens in structuring forest ecosystems, and the concept and practice of sustainability in forest management. Laboratory emphasizes descriptive and investigative studies of local forest ecosystems. Two lecture and three laboratory hours weekly. Prerequisite: A course in BIOL 306 desirable, or permission of instructor. Alternate years.
- BIOL 477:** **FOREST ECOLOGY** **3 s.h.**
 An in-depth approach to the structure, function and dynamics of forest ecosystems at multiple scales. Lecture and discussion focuses on current topics in forest ecology and management such as major forest types and climate influence, of physical factors like soils and hydrology on forest ecosystem function, the importance of disturbance, herbivores, and pathogens in structuring forest ecosystems, and the concept and practice of sustainability in forest management. Laboratory emphasizes descriptive and investigative studies of local forest ecosystems. Two lecture and three laboratory hours weekly. Prerequisite: A course in ecology, BIOL 306 desirable, or permission of instructor. Alternate years.
- BIOL/ES 476/**
SCED 576: **SCIENCE, TECHNOLOGY, AND SOCIETY: TOPICS FOR TEACHERS** **3 s.h.**
 Interdisciplinary course covering topics in biology, earth science, chemistry, and physics designed to acquaint students with information, curricula, and teaching methodologies appropriate for teaching STS topics in traditional science courses. Students will be involved in studies and hands-on activities concerning science computer software, testing water for chemical and biological agents, and remote sensing techniques in geology, geography, physics, and medicine. Investigates and discusses ethical issues and scientific principles concerning computers, energy, nuclear waste, biotechnology, and others. Participants develop curriculum activities for implementation in their science discipline. Required for environmental education, general science, and earth science certification. Prerequisite: Junior standing. Annually.
- BIOL 478:** **BIOME STUDIES** **1-3 s.h.**
 A travel-study program offering opportunities for study in the various biomes, e.g., grasslands, montane, seashore, etc. On demand.
- BIOL 481:** **MICROBIAL GENETICS** **3 s.h.**
 A study of bacterial and viral genetics emphasizing mutation, mutant selection, gene action, recombination genetic mapping, and gene regulation. Laboratory sessions are on an arranged basis. Prerequisite: Genetics and general microbiology or permission of instructor. Alternate years.
- BIOL 483:** **MOLECULAR BIOLOGY** **4 s.h.**
 Study of the structural and functional relationships of the major biological macromolecules, emphasizing nucleic acid biology. Laboratory emphasizes current systems, methods, and applications of biotechnology, including recombinant DNA techniques. Two lecture and four laboratory hours weekly. Prerequisites: Completion of a course in cell biology, genetics, and four semesters of chemistry or permission of instructor. Annually.
- BIOL 485:** **BIOTECHNOLOGY** **4 s.h.**
 Advanced topics in the current systems, methods, and applications of nucleic acid and protein biotechnology. Two lecture and three laboratory hours weekly. Prerequisite: Completion of a course in molecular biology or permission of instructor. Annually.
- BIOL 491:** **BIOGEOGRAPHY** **3 s.h.**
 The subject matter will cover aspects of the distribution of plants and animals. Main topics of concern will include interpretive approaches to biogeography, paleobiogeographic evidence of past distributions, the centers of origin of various groups, mechanics and routes of dispersal and colonization, and the dynamics of extinction. Prerequisites: A course in genetics and principles of ecology or permission of instructor. On demand.
- BIOL 492:** **ANIMAL BEHAVIOR** **3 s.h.**
 Study of the biological concepts of animal behavior. Investigates sensory receptors, internal mechanisms, genetics, learning and habituation, social organization, and communication. Laboratory exercises involve techniques of observation and experiments in animal behavior. Three lecture hours weekly. Prerequisites: Completion of courses in ecology and genetics or permission of instructor. Alternate years.
- BIOL 493:** **COMMUNITY AND ECOSYSTEM DYNAMICS** **4 s.h.**
 In-depth approach to the structure, function, and dynamics of ecological systems at community, ecosystem, and landscape scales. Lecture and discussion focus on current topics such as niche theory, the regulation of community structure, food webs, ecological stability, diversity, succession, and energy and material cycles. Laboratory emphasizes field-based descriptive and investigative studies of local communities and ecosystems. Three hours lecture and three hours laboratory weekly. Prerequisites: Completion of a course in ecology, basic statistics highly desirable, or permission of instructor. Fall, alternate years.



- BIOL 494:** *POPULATION BIOLOGY* **4 s.h.**
 Investigates the empirical, experimental, and theoretical aspects of the structure, growth, and evolution of biological populations. Takes a holistic approach to how population genetics and population ecology interact to produce observed population structure and dynamics. Two hours lecture/discussion and three laboratory hours weekly. Prerequisites: Completion of a course in ecology and calculus or permission of instructor. Alternate years.
- BIOL 495:** *UNDERGRADUATE SEMINAR I* **1 s.h.**
 Acquaints students with latest developments in their field, to enable them to practice the critical thinking skills and communication skills required of professional scientists. Juniors critique each seminar for content, analysis, and presentation, and demonstrate comprehension of the material presented each week. Prerequisite: Junior standing as an undergraduate major in the Biology Department or permission of the instructor. Required for Molecular Biology/Biotechnology majors. Spring, annually.
- BIOL 496:** *UNDERGRADUATE SEMINAR II* **1 s.h.**
 Acquaints students with latest developments in their field. Enables students to practice critical-thinking and communication skills required of professional scientists. Seniors present one or two short seminars during the semester based on recent literature of their field. Prerequisite: Senior standing as an undergraduate major in the Biology Department or permission of the instructor. Required of Molecular Biology/Biotechnology majors. Spring, annually.
- BIOL 497:** *EVOLUTIONARY ECOLOGY* **3 s.h.**
 Explores contemporary topics and landmark contributions in ecology and evolutionary biology through readings of research and review papers. Three hours lecture/discussion weekly. Prerequisites: Completion of a course in ecology, evolution, and genetics, or permission of instructor. Spring, alternate years.
- BIOL 499:** *UNDERGRADUATE RESEARCH IN BIOLOGY* **1-4 s.h.**
 Gives upper-level undergraduate students an experience in biological research. Students identify problems for investigation and complete all phases of study, including writing a research report. Prerequisites: Second semester junior or senior standing with a 3.0 QPA overall, a 3.0 QPA in biology or the consent of the department. Limited to a total of four credits during undergraduate career. Students seeking approval for a BIOL 499 project must complete the BIOL 499 registration form securing signatures of the academic advisor and project director. BIOL 360 and 499 may not be used for the same project.

Environmental Studies Courses

- ENVR 275:** *ENVIRONMENTAL STUDIES AND POLICIES* **3 s.h.**
 Introduces students to the basic language and methodologies used in environmental studies. Examines management policies and diversity of land uses associated with each property. Students study key ecological habitats, some rather pristine and others highly impacted by humans. Students learn the role science plays in each situation, conduct basic laboratory and field research to learn how scientific data are obtained, and learn the roles history, sociology, politics, economics, etc. play in policy decisions. Three lecture hours weekly. Prerequisite: One semester of biology, chemistry, or earth science. Annually.
- ENVR 475:** *FIELD NATURAL HISTORY* **3 s.h.**
 Explores competencies in biology, meteorology, geology, and astronomy. Emphasizes developing competencies which will be valuable in teaching environmental (outdoor and conservation) education. Prerequisite: Upper-division standing. On demand.
- ENVR 490:** *SEMINAR IN ENVIRONMENT AND SOCIETY* **3 s.h.**
 Interdisciplinary seminar synthesizes knowledge and skills acquired in lower-division courses through unifying environmental studies. Broad theme offers a variety of dimensions for study and research. Bases studies and research around environmental situations existing in this northwest region of Pennsylvania. Two lecture and three laboratory hours weekly. Prerequisites: Junior standing, ENVR 275, PHIL 212, ECON 202, plus nine additional hours of environment and society courses, or consent of instructor. Annually.

General Studies Course

Courses carrying the GS label are interdisciplinary in nature or are courses which do not fit into any of the usual academic disciplines. They are taken as free electives, as personal development and life skills under general education, or may with departmental approval be substituted for required courses in some majors.

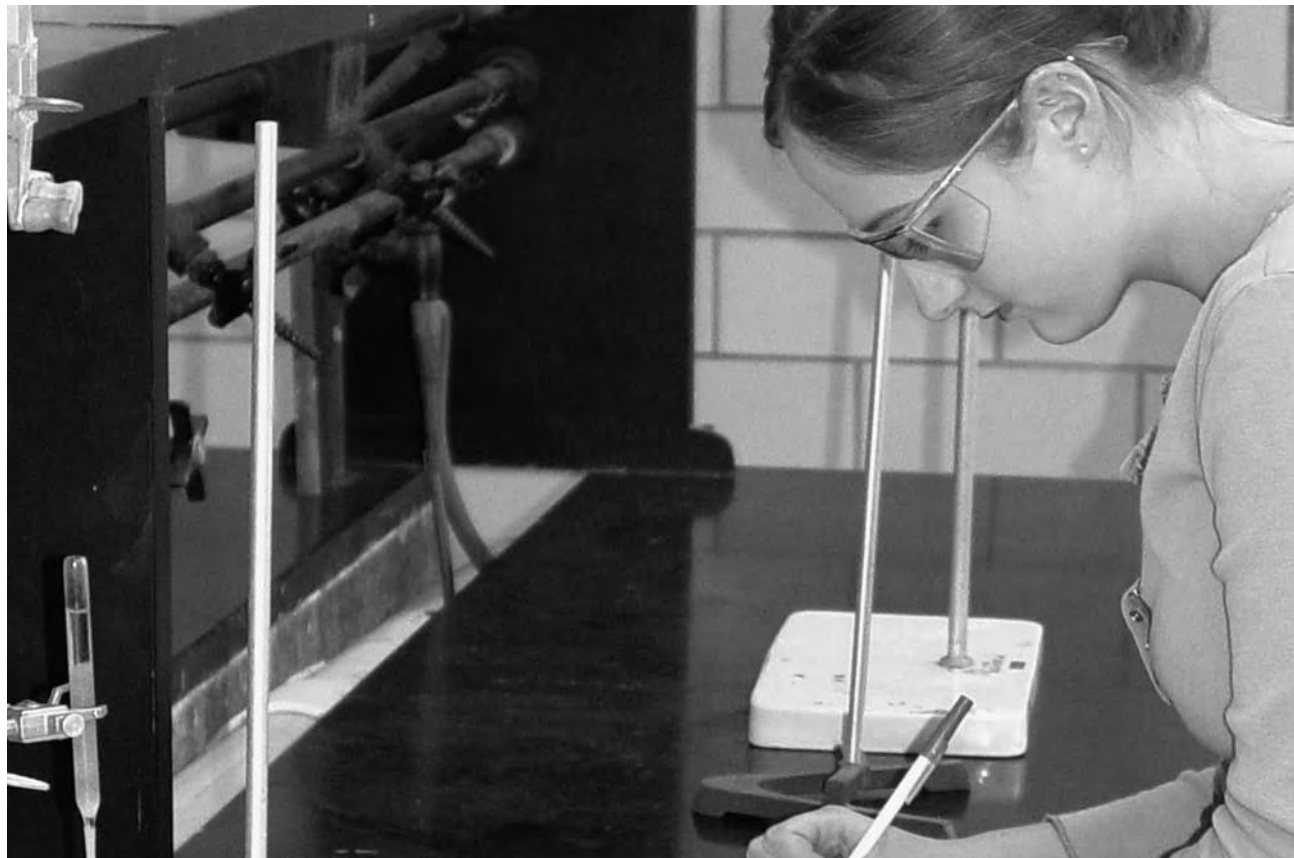
- GS/BIOL 225:** *HUMAN GENETICS* **3 s.h.**
 Examines Mendelian genetics and the inheritance of human genetic disease. Investigates the anatomical, physiological, biochemical, and genetic basis of human diseases, including diabetes, atherosclerosis, and cancer. Analyzes the genetic basis of mental illness. Explores behavioral genetics and sociobiology, recombinant DNA, "gene therapy," and medical ethics. Non-majors course for students who wish to know more about human genetics than is available in basic biology. May be particularly useful for students in anthropology, rehabilitative sciences, psychology, sociology, and special education. Prerequisite: One semester of biology or permission of instructor. Annually.

Medical Technology Courses (Professional Study Year)

- MT 401:** *CLINICAL MICROBIOLOGY* **6-9 s.h.**
 Explores identification and clinical pathology of bacteria, fungi, viruses, and parasites. Presents techniques to isolate, stain, culture, and determine antimicrobial susceptibility. Includes instrumentation and quality control.
- MT 402:** *CLINICAL CHEMISTRY* **6-9 s.h.**
 Examines enzymology, endocrinology, biochemistry of lipids, carbohydrates and proteins, metabolism of nitrogenous end products, physiology and metabolism of fluids and electrolytes, and toxicology as related to the body and diseases. Includes colorimetry, spectrophotometry, electrophoresis, chromatography, automation, and quality control.
- MT 403:** *CLINICAL HEMATOLOGY / COAGULATION* **3-6 s.h.**
 Analyzes the composition and functions of blood; diseases related to blood disorders; the role of platelets and coagulation. Includes manual and automated techniques of diagnostic tests for abnormalities.
- MT 404:** *CLINICAL IMMUNOHEMATOLOGY* **4-6 s.h.**
 Examines blood antigens, antibodies, crossmatching, hemolytic diseases, and related diagnostic tests. Includes an in-depth study of blood donor service and its many facets such as transfusions, medico-legal aspects, etc.
- MT 405:** *CLINICAL IMMUNOLOGY / SEROLOGY* **2-4 s.h.**
 Explores immune response, immunoglobulins, autoimmunity and complement, and related tests and diseases. Includes survey and demonstration of serological diagnostic tests.
- MT 406:** *CLINICAL SEMINAR* **0-4 s.h.**
 Other courses which are not included in the above (such as orientation, laboratory management, education, clinical microscopy) are unique to the individual hospital program.

Physical Science Courses

- PHSC/BIOL 116:** *AERODYNAMICS: THE PHYSICS AND BIOLOGY OF FLIGHT* **3 s.h.**
 The biomechanics of flight. Students use techniques in physics and evolutionary biology to study how animals fly and swim. Draw upon bats, birds, insects, and even winged seeds, for discussing and testing the basic operating principles of wings. Apply results obtained with a wind tunnel to the locomotion of objects in water. Compare and contrast the flyers and swimmers of nature with those of human invention. The course has a substantial studio laboratory component. On demand.
- PH 261:** *PHYSICS OF ENERGY AND THE ENVIRONMENT* **3 s.h.**
 A study of the physical laws and processes that underlie environmental phenomena with a special focus on energy (mechanical, thermal, and electrical). Establishes both a qualitative and quantitative understanding of the underlying physical processes. Technical, economic, and social consequences of these laws and processes are examined to better delineate the complex decisions related to human energy use and environmental issues. The course might serve as a substitute for PH 251 (General Physics I) and prepares students equally well for PH 252 (General Physics II). Fall.



- CHEM 361:** *INTRODUCTION TO ANALYTICAL CHEMISTRY LABORATORY* **1 s.h.**
 Laboratory exercises exemplify and augment topics included in CHEM 351. Must be taken concurrently with CHEM 351 unless it is being repeated. Three hours laboratory. Spring, annually.
- CHEM 363:** *ANALYTICAL CHEMISTRY I LABORATORY* **1 s.h.**
 Laboratory exercises exemplify and augment topics included in CHEM 353. Must be taken concurrently with CHEM 353 unless it is being repeated. Three hours laboratory. Fall, annually.
- CHEM 358:** *ANALYTICAL CHEMISTRY II* **3 s.h.**
 Includes separation procedures and electroanalytical and automated methods of chemical analysis. Students must concurrently schedule CHEM 368. Prerequisites: CHEM 354, 355; CHEM 355 concurrently, or consent of department. Three hours lecture. Spring, annually.
- CHEM 368:** *ANALYTICAL CHEMISTRY II LABORATORY* **1 s.h.**
 Laboratory exercises exemplify and augment topics included in CHEM 358 and the analytical techniques of nuclear magnetic resonance and mass spectroscopy. Must be taken concurrently with CHEM 358 unless it is being repeated. Three hours laboratory. Spring, annually.
- CHEM 354:** *PHYSICAL CHEMISTRY I* **3 s.h.**
 Concerned primarily with the principles of thermodynamics. Discusses kinetics in the latter portion of the term. Applies the laws of thermodynamics to many problem-solving situations. Uses calculus heavily, and requires a basic familiarity with the handling of simple differentials and integrals. Kinetics is treated from experimental and mechanistic points of view. Prerequisites: CHEM 152, 162; PH 252 or 259; MATH 271. Three hours lecture. Fall, annually.
- CHEM 355:** *PHYSICAL CHEMISTRY II* **3 s.h.**
 Develops both the classical wave formulation and the concept of operators as approaches to the study of quantum mechanics. Students solve simple one-electron problems. Extends groundwork to molecular problems. Examines spectroscopy in detail, particularly as a tool in the determination of molecular structures. Prerequisite: CHEM 354. Three hour lecture. Spring, annually.
- CHEM 364:** *PHYSICAL CHEMISTRY I LABORATORY* **1 s.h.**
 Involves experiments in the areas of thermodynamics and kinetics to reinforce what is taught in the lecture course. To be taken concurrently with CHEM 354. Experiments include bomb calorimetry, construction of a simple two-component phase diagram, and stopped-flow, fast-action kinetics. Prerequisite: CHEM 355. Three hours laboratory. Fall, annually.
- CHEM 365:** *PHYSICAL CHEMISTRY II LABORATORY* **1 s.h.**
 Taken concurrently with CHEM 355. Involves experiments in the areas of quantum mechanics, molecular spectroscopy, and crystallography. Experiments include obtaining rotational-vibrational spectra of a diatomic molecule utilizing Fourier Transform Infrared Spectroscopy (FTIR), and analyzing a powdered crystalline sample using X-ray diffraction. Prerequisite: CHEM 355 and 364. Three hours laboratory. Spring, annually.

Computer Information Science

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Assistant Professors: Childs, Wyatt

Welcome to the eye of the hurricane! In a world going through dramatic change, the field of Computer Information Science (CIS) stands at the center of the turmoil, designing, creating, and maintaining the technology and the systems that are central to the way the world works. Whether it's e-commerce, information retrieval via the World Wide Web, financial transactions at a local bank, or rockets blasting into space, computer scientists and information specialists are responsible for the hardware and software systems used for these endeavors. And although the changes in the world seem chaotic, there is calm at the center of the turmoil where the computer scientist and information specialist proceed methodically using the tools of logic and mathematics and an evolving engineering discipline to shape this new world being built.

At Clarion, we have faculty who have many years of real-world experience and many years of teaching and sharing that experience with students. Students develop software for a variety of computing platforms including mainframe and personal computers and the networks linking them together. Software experience includes C++, Visual Basic, Java and others. At Clarion, the CIS student gets the full attention of the faculty who are in the classroom and in the labs helping the students learn. There is a dramatic need for people to come join the ranks of the professionals that are quietly changing the world. If you are bright, energetic, and persistent and love to solve difficult problems in creative ways, come join us!



- COMPUTER SCIENCE, B.S.** 58 credits
Required: CIS 163, 244, 253, 254, 306, 350, 355, 356, 375, 411, 460; CIS/MATH 140, MATH 260 or 270, ECON 221, PHIL 311, and credits of approved CIS electives in courses 300-level or above.
- INFORMATION SYSTEMS, B.S.** 63 credits
Required: CIS 110, 202, 206, 217, 301, 303, 317, 330, 402, 403, 411; MATH 131, 232; ECON 211, 212; ECON 221 or MATH 221; ACTG 251, 252; FIN 370, MGMT 320, MKTG 360, and 6 credits of approved CIS electives in courses 300-level or above.
- COMPUTER SCIENCE, MINOR** 18 credits
Required: CIS 163, 244, 254, and 9 credits of approved CIS electives in courses 300-level or above.
- INFORMATION SYSTEMS, MINOR** 18 credits
Required: CIS 110, 202, 217, 301 and 6 credits of approved CIS electives in courses 300-level or above.

Computer Information Science Courses

CIS 110: INTRODUCTION TO COMPUTER INFORMATION SYSTEMS

3 s.h.

Surveys the needs for, and roles of, computer information systems in contemporary society. Designed to satisfy the need of students from every discipline to be "computer literate," and provides the necessary basis for further computer-related studies. Emphasizes computer requirements in organizations, history, hardware concepts, programming, application software, systems development, and computer operations.

CIS/MATH 140: ESSENTIAL TOPICS IN DISCRETE MATHEMATICS FOR COMPUTER SCIENCE

3 s.h.

An introduction to the discrete mathematics essential for course work in computer science. Elementary coverage of proofs including mathematical induction, sets, functions, relations, Boolean algebra, number theory, combinatorics, analysis of algorithms including recursive algorithms, matrices, and the logic of control and data storage through hand computation. The course should be taken in a computer science major's first year. It is a prerequisite for upper division required major courses in the computer science major. A successful student should be able to apply the concepts taught to problem solving in computer science.

CIS 163: INTRODUCTION TO PROGRAMMING AND ALGORITHMS I

3 s.h.

Addresses the broad issues of computer science as well as introductory programming. Emphasizes fundamental interaction at the operating system (PC and mainframe) and relevant application (program development tools) level. Introduces programming as a critical component within the framework of computer science. Includes architecture, operating systems, and software engineering.

- CIS 202:** *INTRODUCTION TO EVENT-DRIVEN PROGRAMMING* **3 s.h.**
Introduces graphical user interfaces, event-driven programming, and windows on-screen objects such as command buttons, text boxes, option buttons, and forms. Programming projects will require students to design interactive screens as well as code subroutines to implement the programs.
- CIS 206:** *INTRODUCTION TO JAVA PROGRAMMING* **3 s.h.**
Introduces the Java programming language. Designed to expose information systems majors to a second programming language (after Visual Basic). Involves programming Java applets and Java applications. Students learn the core of the language including its data types, arithmetic statements, selection statements, repetition statements, arrays, and string processing features. Object-oriented programming concepts are introduced but are not the focus of the course. Other topics include Java's windowing toolkits, file input and output, exception handling, and the Java security model. Prerequisite: CIS 202. Not for credit for CS majors.
- CIS 217:** *APPLICATIONS OF MICROCOMPUTERS* **3 s.h.**
Introduces the basic concepts of microcomputers and software applications. Includes commonly available software packages and graphics. No prerequisite.
- CIS 230:** *PRACTICUM IN COMPUTER INFORMATION SCIENCE* **1-2 s.h.**
Provides undergraduate students with an introduction to the role of computer specialists in the everyday operation of a computer laboratory. Supplies real experience in such routine exercises as interacting with computer users to field problems and complaints, machine event logging, and performing simple tasks to keep machines operating. A maximum of six credits of the practicum may be applied toward graduation. Prerequisite: CIS 217 or permission of the instructor.
- CIS 244:** *INTRODUCTION TO PROGRAMMING AND ALGORITHMS II* **3 s.h.**
Examines complex problem-solving techniques, top down design, and program debugging and testing. Prerequisite: CIS 163.
- CIS 253:** *COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE* **3 s.h.**
Consists of two major parts: (1) an introduction to assembly language programming and (2) an introduction to computer organization and the structuring of major hardware components. Students develop a basic understanding of the mechanics of information transfer and control and the fundamentals of logic design. Prerequisite: CIS 163 or 202.
- CIS 254:** *DATA STRUCTURES* **3 s.h.**
Introduces the structuring of data in computer programs. Topics include static, dynamic, and persistent memory, linked lists, stacks, queues, trees, and hash tables. The major concepts are reinforced through programming assignments using algorithms illustrating the power of each data structure. Prerequisite: CIS 244.
- CIS 301:** *COMPUTER SYSTEMS ANALYSIS* **3 s.h.**
Study of informational needs and patterns of information flow within a large organization. Emphasizes the analysis and design of computer software systems. Examines ethical and legal issues related to information systems. Prerequisites: CIS 217 and 202 or 244.
- CIS 303:** *LOCAL AREA NETWORKS* **3 s.h.**
Study of the technology of local area networks. Includes LAN design, topology, hardware, standards, protocols, and network operating systems. Includes significant hands-on experience building a LAN and installing network interface cards and cable. Prerequisite: CIS 163 or CIS 202.
- CIS 304:** *INTERNET PROGRAMMING* **3 s.h.**
A review of the Internet and the World Wide Web practices and protocols. Evaluations of methods, development tools, services, standards, administration, and trends used in providing information over the Internet. Includes hands-on development with evolving Internet technologies such as Dynamic HTML, Cascading Style Sheets, client-side scripting, server-side scripting, Web Server Administration, Perl/CGI, Java/JSP, PHP, ASP, XML, and/or Web Services. Prerequisite: CIS 163 or 202.
- CIS 305:** *ARTIFICIAL INTELLIGENCE IN DECISION-MAKING* **3 s.h.**
Surveys the thinking and some of the pioneering efforts in the area of artificial intelligence (AI), integrated with more traditional approaches to decision-making. Applies AI principles through the use of logic programming languages. Prerequisite: CIS 163 or 202.
- CIS 306:** *OBJECT-ORIENTED PROGRAMMING* **3 s.h.**
Introduces a popular object-oriented programming language. Emphasizes object-oriented features of the language: classes and objects, encapsulation, inheritance, and virtual functions. Exposes students to both the syntax and semantics of the language. Applying these features, students complete several small programming projects. Smalltalk and Java are examples of languages that might be chosen. Prerequisite: CIS 206 or 244.
- CIS 312:** *SPECIAL TOPICS IN COMPUTING* **3 s.h.**
Provides for focused study of a special interest topic in computing using learning formats selected by the instructor as best suited for the particular course. Prerequisites for particular course set by the instructor.
- CIS 317:** *MICROCOMPUTER MAINTENANCE CONCEPTS AND TECHNIQUES* **3 s.h.**
Covers the installation, configuration, upgrading, troubleshooting and repair of microcomputer hardware. Includes basic networking concepts and printers. Knowledge of safety and common preventive maintenance procedures is stressed. Prerequisite: CIS 217.
- CIS 330:** *ADVANCED EVENT-DRIVEN PROGRAMMING* **3 s.h.**
In-depth study of event-driven programming with a concentration on the retrieval, updating, and reporting of information stored in a database. Prerequisite: CIS 202.
- CIS 333:** *INFORMATION SYSTEMS AUDITING AND SECURITY* **3 s.h.**
Analyzes the information system audit process, provision and evaluation of controls in all aspects of information system operation, and the provision and maintenance of computer security. Stresses internal controls while examining specific controls and security. Prerequisite: CIS 303.

- CIS/MATH 340: DISCRETE MATHEMATICAL STRUCTURES** **3 s.h.**
 Introduces sets, relations, functions, combinations, graphs, and trees, emphasizing concrete models. Includes computer algorithms and mathematical structures useful in computer science. Designed for students in both mathematics and computer science. Prerequisites: MATH 300 and CIS 163.
- CIS 350: MACHINE ARCHITECTURE AND SYSTEMS SOFTWARE** **3 s.h.**
 Investigates the basic concepts of machine architecture together with their realization and software implications in various categories of computer systems. Prerequisite: CIS 253.
- CIS 355: OPERATING SYSTEMS** **3 s.h.**
 Covers the functions of operating systems, the design of operating systems at the register transfer and programming levels, and the important relationships between operating systems and computer hardware. Prerequisites: CIS 254 and 350.
- CIS 356: ANALYSIS OF ALGORITHMS** **3 s.h.**
 Analysis of algorithms represented in computer programs. Topics include correctness and performance of code used in searching, sorting, and solving mathematical problems. Prerequisites: CIS/MATH 140, CIS 254 and MATH 260 or 270.
- CIS 375: SOFTWARE ENGINEERING** **3 s.h.**
 Introduces the student to the basic concepts and ideas surrounding the discipline of software engineering. The student will analyze and design and implement one or more software projects. The language used will vary. Prerequisites: CIS 254 and 306.
- CIS 377: COMPUTER GRAPHICS** **3 s.h.**
 Provides an overview and application of the principles and tools of computer graphics. Includes characteristics of graphical display devices, graphics software primitives, representation, manipulation, and display of two- and three-dimensional objects, interactive graphics and the graphical user interface, and animation. Includes graphics programming projects. Prerequisites: CIS 254.
- CIS 402: DATABASE MANAGEMENT SYSTEMS** **3 s.h.**
 A study of database management systems with hands-on experience. Students investigate the analysis, design, implementation, and maintenance of a modern database management system. Prerequisite: CIS 301.
- CIS 403: DATA COMMUNICATIONS** **3 s.h.**
 Focuses on the OSI model of data communications and uses the model as the basis for discussions of protocols, topologies, transmission media, and communications security. The TCP/IP protocol suite is examined in detail. Prerequisite: CIS 303.
- CIS 411: SYSTEMS DEVELOPMENT PROJECT** **3 s.h.**
 Students develop a computer-based solution to a real problem obtained from the university or the community. Working as a member of a group/team, students evaluate an existing system; identify alternative solutions; select a solution; develop a project plan; and design, implement, test, and document the system. Utilizes current technology whenever possible, including microcomputers, and a relational database. Prerequisites: Senior standing. Fall and Spring, annually.
- CIS 422: INTERNSHIP IN COMPUTERS** **1-12 s.h.**
 Provides students the opportunity for practical computer experience in commercial, industrial, governmental, or other participating organizations. Prerequisite: CIS 253 or 330. Junior or senior standing.
- CIS 460: PROGRAMMING LANGUAGES AND COMPUTATION THEORY** **3 s.h.**
 Introduces automata theory and Turing machines as well as the associated formal languages. Students will explore the construction and implementation of programming languages allowing the student to choose and use programming languages in a competent manner. Students will also explore different programming paradigms, such as robotics programming and parallel programming. Prerequisites: CIS/MATH 140 and CIS 254.
- CIS 462: SIMULATION AND MODELING** **3 s.h.**
 Covers the advantages and disadvantages of using computer simulation in modeling. Students learn and practice techniques of computer simulation. Prerequisite: CIS 244 or 330.
- CIS 499: INDEPENDENT STUDY IN COMPUTERS** **1-3 s.h.**
 Permits students to explore an area of special interest using computers. Department faculty member must direct the special project. Prerequisites: CIS 244 or 330, junior or senior standing.

Cooperative Engineering Program

Coordinator: John Heard, Ph.D.

Professors: Freed, Keen

Assistant Professors: Heard, Pearce

Clarion University has cooperative engineering agreements with the School of Engineering at the University of Pittsburgh and with the Case Institute of Technology of Case-Western Reserve University. Students in this program attend Clarion for three years and one of the engineering schools for two years, earning a B.S. degree in physics,

chemistry, or mathematics from Clarion and an engineering degree from the engineering school. Students with a cumulative 3.0 QPA are virtually guaranteed admission to the engineering school. Students with a cumulative QPA between 2.75 and 3.0 are considered for admission to the engineering school.

Economics

Economics is the social science that studies human material needs, and how to maximize well-being with available resources. Household, government and business decisions are studied, as are trade and specialization among individuals and nations .

Clarion's Bachelor of Arts (B.A.) in Economics provides a traditional liberal arts education by combining economics courses with courses in other social sciences, such as history and political science. Students find this program suitable for postgraduate work in law, business and economics, or for beginning a career immediately after graduation. Many positions are open to economics graduates. A minor in economics is also offered, which complements many Arts and Science majors.

The Economics Department at Clarion has an exceptionally high Ph.D. coverage, and its low student-faculty ratio for majors promotes high-quality instruction and personal attention. Internships tailored to students' personal interests can be arranged with business, government and nonprofit institutions. Located in Still Hall, the department has excellent classroom and computer facilities.

The Economics Department sponsors the Political Economy Club and a chapter of Omicron Delta Epsilon, the international honor society in economics.

ECONOMICS, B.A.45 credits

Required: ECON 211, 212, 310, 311 and 21 credits of 300- and 400-level economics courses chosen in consultation with a department advisor. In addition to these 33 credits, the following are required:

- a. PS 210, PS 211
- b. One course from HIST 120 or 121
- c. One course from ANTH 211, SOC 211, PSY 211

In addition, the B.A. degree requires a competency in either foreign language [the student must pass the final exam for the second year (Intermediate II) or an equivalent thereof] or quantitative skills (the student must take ECON 221, ECON 222, and demonstrate mathematics competency on the level of MATH 232 or MATH 270).

Engineering

See Cooperative Engineering Program, page 84, and Pre-professional Studies in Engineering, page 134.



English

Department of English, Elizabeth MacDaniel, Ph.D., chair

210D Davis Hall

Telephone: 393-2159

E-mail address: emacdaniel@clarion.edu

Website: www.artsci.clarion.edu/english/index.htm

Professors: Fink, Graham, Leary, Luthin, MacDaniel, Sheraw, Stemmler, Terman, Xu

Associate Professors: Bodziock, Huber, Lane, McCarrick, K. Smith, Welsch

Assistant Professors: Downes, Foster, Knepper, Pack, Roberts, Rosati, Sarbin, Smart

There are few undergraduate majors that provide a person with the critical literacy and multicultural awareness essential for success in any field as does English. Since writing and reading literature are forms of self-discovery, as an English major you will learn how to express your own insights, values, and opinions. In addition you also will deepen your appreciation and knowledge of the world. Close reading, analytical writing, and critical/creative thinking are universally important skills that will serve the English major well in a variety of rewarding and competitive careers. The worlds of education, teaching, law, human services, marketing, advertising, publishing, public relations, and management welcome with open arms the literate, critical thinker who can write, read comprehensively, and develop convincing arguments with coherence and sharp focus.

As an English major at Clarion University, you will work with professors who are committed to teaching excellence. Our faculty is sensitive to the mosaic of critical and creative writing, literature, and multiculturalism that English studies offers students. As an English major at Clarion, you may choose among many fields of study: Literature (American, British, World, Women's, Multi-Ethnic, Young Adult); Writing (Creative, Critical, Professional); Linguistics; Culture Studies (Film, Folklore, Critical Theory). Beyond course work, you can become active in our English Club, Sigma Tau Delta (the International English Honor Society), Study-Aboard Program, Women's Reading Group, student magazines (*Tobeco* and *BaZaar*), and the Visiting Writers Program. Your personal and professional growth as a Clarion English major will prepare you to meet the world with confidence, critical literacy, and sophistication.

The English Department is also home to the university's Writing Center which provides assistance to all students in their efforts to become better writers. (See page 24 for details.) Students who work as writing consultants in the Center can earn College Reading and Learning Tutor Certification.

ENGLISH, B.A. 54 credits

Required: ENG 199; ENG 221 or 222; ENG 225 or 226; ENG 227 or 228 (NOTE: at least one of the surveys must come from the first half of a sequence, and at least one of the surveys must come from the second half of the sequence); ENG 262; 355; one American literature course at 300-/400-level; one English literature course at 300-/400-level; one world literature course at 300-/400-level; ENG 499. In addition to these 30 credits, the students must also, in consultation with their advisor, select 15 hours, nine of which must be at the 300-/400-level, that reflect one of the following areas of specialization:

- **General literature:** Two additional 200-level surveys plus three additional* literature courses at the 300-/400-level.
- **Comprehensive:** Two additional 200-level surveys, two additional* literature courses at the 300-/400-level, and a linguistics course, preferably ENG 458.
- **Writing:** 15 credits. Choose from the following writing courses: ENG 200, 202, 207, 301, 303, 304, 306, 307, 356, 480, and 482.
- **Multicultural literature:** ENG 230 and 365 are required (6 credits); one additional multicultural literature course from among the following: ENG 227, 228, 231, 241; two additional multicultural literature courses from among the following offerings: ENG 331, 354, and 454.
- **Cultural studies:** Three courses (9 credits) from among the following offerings: ENG 150, 242, 250, and 353; two additional courses—any one of the preceding not already used, ENG 350, and 352.
- **Linguistics:** ENG 263, 353, 457, 458, and 459.
- **Movie studies and drama:** One movie studies course (ENG 150, 350), one drama course (ENG 140, 342, 343, 344, 345, 455), one Shakespeare course (ENG 412, 413), plus any two additional courses in movie studies, drama, and/or Shakespeare.

An additional, nine hours of 300-/400-level English electives must also be taken.

**Excluding linguistics, folklore, and movie studies*

SECONDARY EDUCATION, B.S.ED.

Certification for grades K-12, English (see under Secondary Education English), page 173.

In addition, the English Department offers four minors, one in English: Literature and three in English: Writing.

ENGLISH: LITERATURE, MINOR.....18 credits

Students pursuing the minor in English: Literature must successfully complete two of the 200-level survey courses listed below.

- A. ENG 199: Introduction to English Studies
This course is required of all students pursuing the minor in English: Literature. Ideally, it should be taken as the initial course in the program.
- B. ENG 221: English Literature: Beginnings to 1800
ENG 222: English Literature: 1800 to Present
ENG 225: American Literature: Beginnings to 1860
ENG 226: American Literature: 1860 to the Present
ENG 227: World Literature: Backgrounds and Traditions
ENG 228: Modern and Contemporary World Literature
ENG 230: Introduction to African-American Literature
- C. Students must also successfully complete any three courses to be selected from ENG 311 through ENG 455 (except ENG 353 and ENG 356).

ENGLISH: PROFESSIONAL WRITING & RHETORIC, MINOR.. 18 credits

- A. Required Writing Course (3 credits)
ENG 207: Research Methodology and Writing
- B. Additional Writing Courses (15 credits; at least nine of which must be at the 300-400 level
ENG 263: English Grammar and Usage
ENG 301: Writing Non-Fiction Prose
ENG 306: Scientific and Technical Writing
ENG 307: Business Writing
* ENG 356: Rhetorical Theory for Writers
* ENG 480: Writing for the Professions

ENGLISH: CREATIVE WRITING, MINOR.....18 credits

- A. Required:
ENG 202: Beginning Creative Writing
ENG 404: Advanced Creative Writing
- B. Additional required credits (two of the following):
ENG 301: Writing Non-Fiction Prose
ENG 303: The Craft of Fiction
ENG 304: The Craft of Poetry
THE 356: Playwriting and Script Construction
- C. Two of the following (one from each group):
Group 1
ENG 130: Literary
ENG 140: Drama as Literature
ENG 150: Movie Studies
Group 2
ENG 242: Intro to American Folklore
* ENG 329: Contemporary American Literature
ENG 339: Short Stories
ENG 341: 20th Century Poetry
ENG 353: American Voices

English Courses

ENG 110: WRITING I **3 s.h.**

Introduces students to the composing strategies of college writing through a gradual progression from expressive discourse toward explanatory discourse. When necessary, work is done in punctuation, grammar, and spelling. Each semester.

ENG 111: WRITING II **3 s.h.**

Emphasizes development of critical thinking through analytical and argumentative writing and introduces students to research writing. Each semester. (Credit for advanced placement English or satisfactory SAT verbal scores does not exempt the student from fulfilling the university writing requirement.) If they have received credit for courses equivalent to either or both our ENG 110 and ENG 111, such transfer credit must be documented on a checksheet from the Office of the Registrar. Unless exempt, all students must take ENG 111. I (After taking ENG 111, students may not enroll in ENG 110.)

ENG 115: COMPOSITION FOR INTERNATIONAL STUDENTS **3 s.h.**

Helps ESL writers to develop an understanding of the English grammar system, to discern the systematic patterns that exist in the language, to develop a vocabulary in order to express their ideas in English, and to recognize the rhetorical structure of the language. Satisfies the requirement for ENG 111.

- ENG 130:** *THE LITERARY EXPERIENCE* **3 s.h.**
Provides a wide selection of literature to introduce the student to various literary genres. No prerequisite. Recommended for all students. Not for declared B.A. English majors. Each semester.
- ENG 140:** *INTRODUCTION TO DRAMA AS LITERATURE* **3 s.h.**
Introduces students to the structures and strategies playwrights use to create different experiences for their readers. Draws on a variety of plays to focus on how to read a dramatic text so as to perceive the special cues it uses to stimulate imaginative engagement and how the text can be translated into theatrical performance. No prerequisites.
- ENG 199:** *INTRODUCTION TO ENGLISH STUDIES* **3 s.h.**
Designed for and required of English majors. Provides intensive introduction to reading, discussing, and writing about literature. A small number of texts will be read, allowing for an introduction to different theoretical and critical approaches to English studies. Students will apply various theories as they analyze texts. Students will use research techniques appropriate for English majors. Prerequisite: Exemption from or successful completion of the general education writing requirement. Spring, annually.
- ENG 200:** *COMPOSITION AND LITERATURE* **3 s.h.**
Stresses the writing of papers as a direct result of reading, analysis, discussion, and interpretation of a variety of literary types. Examines fiction, plays, essays, and poems from various cultural perspectives. Addresses research techniques and related skills. Includes studies of women and minority writers. Prerequisite: Exemption from or successful completion of the general education writing requirement. Each semester.
- ENG 202:** *BEGINNING CREATIVE WRITING* **3 s.h.**
Introduces the techniques of creative writing in prose and poetry. Emphasizes writing practice for students and opportunities for guidance and critical examination of their work. Prerequisite: Exemption from or successful completion of the general education writing requirement.
- ENG 207:** *RESEARCH METHODOLOGY AND WRITING* **3 s.h.**
Teaches how to conduct research and how to write a research paper. Prerequisite: Exemption from or successful completion of the general education writing requirement. Each semester.
- ENG 221:** *ENGLISH LITERATURE: BEGINNINGS TO 1800* **3 s.h.**
Surveys English literature and its historic, intellectual, and cultural contexts beginning with Beowulf and extending through the works of such writers as Chaucer, Shakespeare, Milton, Pope, Swift, Dryden, and Johnson, and provides highlights of the development of modern English. Fall, annually.
- ENG 222:** *ENGLISH LITERATURE: 1800 TO PRESENT* **3 s.h.**
Surveys English literature from circa 1800 and includes selected works of such major writers as the Wordsworths, Coleridge, the Shelleys, Keats, Tennyson, Browning, Arnold, Woolf, Joyce, Eliot, and Lessing. Spring, annually.
- ENG 225:** *AMERICAN LITERATURE: BEGINNINGS TO 1860* **3 s.h.**
Surveys major periods and writers of American literature from its beginnings to 1860. Enables students to understand the continuities and discontinuities of American literature. Includes writings by traditional male and female authors, as well as minority authors. Instructors may use historical and/or thematic approaches. Fall, annually.
- ENG 226:** *AMERICAN LITERATURE: 1860 TO THE PRESENT* **3 s.h.**
Surveys major periods and writers of American literature from 1860 to the present. Enables students to understand the continuities and discontinuities of American literature. Includes writings by traditional male and female authors, as well as minority authors. Instructors may use historical and/or thematic approaches. Spring, annually.
- ENG 227:** *WORLD LITERATURE: BACKGROUNDS AND TRADITIONS* **3 s.h.**
Examines some of the world's most influential literature, providing an overview of literary history from antiquity into the 19th century. Considers Asian, Middle Eastern, and pre-colonial American literatures as well as works from the European tradition. Fall, annually.
- ENG 228:** *MODERN AND CONTEMPORARY WORLD LITERATURE* **3 s.h.**
Surveys international literature from the past 150 years, with a focus on the fiction, drama, and poetry of significant authors. Studies national literatures within their respective social, historical, and geographical contexts, with an effort to identify cross-cultural developments. Spring, annually.
- ENG 230:** *INTRODUCTION TO AFRICAN-AMERICAN LITERATURE* **3 s.h.**
Provides insight into the African-American experience through the reading and discussion of the works of African-American writers who have made significant contributions to literature. Includes various genres: poetry, short fiction, drama, film, the novel, autobiography. No prerequisite.
- ENG 231:** *INTRODUCTION TO ASIAN-AMERICAN LITERATURE* **3 s.h.**
Provides an overview of Asian-American literature, introducing students to representative authors from its various periods of development, emphasizing contemporary works in different genres. No prerequisite.
- ENG/ANTH 242:** *INTRODUCTION TO AMERICAN FOLKLORE* **3 s.h.**
Introduces the major genres of American folklore: legend, tale, folk belief, song and ballad, and material folk culture; and various folk groups in America: occupational, gender, ethnic, age, regional, and their traditions. Analyzes examples of American literature and American popular culture through an examination of their American folk elements. Provides students with fieldwork experiences and methods of analysis of oral, customary, and literary traditions. No prerequisite. Fall, annually.
- ENG 244:** *SPECIAL TOPICS* **1-3 s.h.**
Focuses on themes and topics of universal and/or current interest as embodied in literature. The special subject of each semester's offerings will be announced in pre-registration. Suitable for both English and non-English majors and may be taken up to three times for credit, provided different topics are offered. On demand.

- ENG 249: SATIRE** **3 s.h.**
Provides an understanding of what satire is, what it accomplishes, and how it is related to other literary modes. Students will analyze subjects often targeted by satirists, such as racism, sexism, etc., and satiric techniques in such forms as fiction (which will include short stories by women and minority writers), poetry, art, music, films, and television satire. No prerequisite. Fall, annually.
- ENG 250: STUDIES IN WESTERN MYTHOLOGY** **3 s.h.**
Concentrates on Greco-Roman myth and legends to demonstrate the systematic nature and recurrent patterns of mythology. Designed to give students a thorough knowledge of content and to clarify questions of form. No prerequisite. Spring, annually.
- ENG 254: MOVIE STUDIES** **3 s.h.**
Explores how movies “mean” through readings of various classic and popular texts, how movies construct viewers, and how they simultaneously mirror and create the cultures of which they are a part. Prerequisite: Successful completion of Gen. Ed. writing requirement. Each semester.
- ENG/ANTH 262: INTRODUCTION TO THE ENGLISH LANGUAGE** **3 s.h.**
Addresses the nature of language, specifically with the grammatical structures of modern English, its regional and social varieties, and certain highlights of its historical development. Each semester.
- ENG 263: ENGLISH GRAMMARS AND ENGLISH USAGE** **3 s.h.**
Provides an intensive study of English grammar and problems in usage. Emphasizes differences between prescriptive and descriptive approaches to usage, and between traditional and generative approaches to grammar. Each semester.
- ENG 265: SURVEY OF WOMEN’S LITERATURE** **3 s.h.**
Surveys women writers from the Medieval period to the present. The contributions of these women to a distinctly female literary tradition provides the focus of study, but critical issues regarding women’s literature will also be discussed and explored. Pedagogical techniques will include lecture, discussion, film, and collaborative learning, among others. Fall, annually.
- ENG 270: TRAINING FOR WRITING CENTER TUTORS** **1 s.h.**
In conjunction with weekly staff meetings throughout the semester, tutors learn methods of responding to student writing, implementing corrective measures, and teaching as well as using word processing. Tutors are accepted by invitation only on the basis of performance in writing courses; minimum 3.0 QPA. Venango Campus only. Each semester.
- ENG 301: WRITING NON-FICTION PROSE** **3 s.h.**
Provides experience in writing non-fiction. Focuses on any of several types of non-fiction, including formal essay, autobiography, and creative non-fiction. Students will also study published examples of the genre under consideration and will critique examples presented by peers. Prerequisite: Exemption from or successful completion of the general education writing requirement. Each semester.
- ENG 303: THE CRAFT OF FICTION** **3 s.h.**
Provides extensive practice in writing fiction. Student work receives intensive group critique. Course standards roughly approximate those of commercial fiction editors. Prerequisite: ENG 202 or permission of instructor, based on examination of writing samples. Spring, even-numbered years.
- ENG 304: THE CRAFT OF POETRY** **3 s.h.**
Provides the advanced writer intensive practice in the writing of poetry. Students must produce a portfolio of high-quality poetry by the end of the course. Prerequisite: ENG 202 or permission of instructor based on examination of writing samples. Spring, annually.
- ENG 306: SCIENTIFIC AND TECHNICAL WRITING** **3 s.h.**
Provides experience in writing practical prose in a variety of scientific and/or technical settings for a broad spectrum of readers. Involves techniques of writing documents of definition, mechanism, and process description; sets of instructions; proposals and reports; and the use of appropriate document and graphic designs. Especially useful to majors in biology, chemistry, computer science, laboratory technology, nursing, physics, and others. Prerequisite: Junior standing. Spring, odd-numbered years.
- ENG 307: BUSINESS WRITING** **3 s.h.**
Uses specialized formats and the composing process to introduce the unique type of writing used in the business and organizational world. Emphasizes identifying and addressing diverse audiences with the specific messages needed. Students critique all types of communications, use collaborative learning techniques, and develop skills needed to communicate in a pluralistic society. Requires students to compose letters, memos, persuasive messages, and reports. All documents must be typewritten. Prerequisite: Exemption from or successful completion of the general education writing requirement. Each semester.
- ENG 310: STUDIES IN MEDIEVAL BRITISH LITERATURE** **3 s.h.**
Examines the works and genres of Britain from 800 to 1500 in their historical and cultural contexts. Theme and texts will vary. May include the study of epic, romance, drama, poetry, saints’ lives, and Arthurian literature, and such texts as *Beowulf*, *The Death of Arthur*, *The Book of Margery Kempe*, and *Everyman*. Fall, even-numbered years.
- ENG 311: STUDIES IN 16TH-CENTURY LITERATURE** **3 s.h.**
Examines the non-dramatic literature of the 16th century and focuses on such figures as Sidney, Spenser, and Shakespeare. Spring, odd-numbered years.
- ENG 313: STUDIES IN 17TH-CENTURY LITERATURE** **3 s.h.**
Provides critical examination of the works, genres, and contexts of such figures as Bacon, Browne, Jonson, Donne, Herbert, Marvell, and Milton. Fall, odd-numbered years.
- ENG 315: STUDIES IN 18TH-CENTURY LITERATURE** **3 s.h.**
Provides a critical examination of the works, contexts, and genres of such representative writers as Dryden, Pope, Swift, Defoe, Johnson, Boswell, and Gray, and traces the rise of the modern novel from Defoe through Austen and the role of women as authors and audience. Spring, even-numbered years.
- ENG 317: STUDIES IN ENGLISH ROMANTIC LITERATURE** **3 s.h.**
Considers the major works of Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries such as Mary Shelley, Mary Wollstonecraft, and others, and relates them to the intellectual, political, and social currents of the time. Spring, even-numbered years.

- ENG 319:** *STUDIES IN VICTORIAN LITERATURE* **3 s.h.**
Focuses on such poets and essayists as Carlyle, Newman, Tennyson, the Brownings, Arnold, the Rossettis, and Meredith. Examines the current renewal of interest in poetry by women and noncanonical writers. Spring, odd-numbered years.
- ENG 325:** *STUDIES IN EARLY AMERICAN LITERATURE* **3 s.h.**
Explores various topics in 17th- and 18th-century American literature against the backdrop of Puritanism. Bradstreet, Taylor, Edwards, Franklin, and Wheatley are among the major figures encountered. Gives attention to the dynamics of molding a distinctively national literature. Spring, even-numbered years.
- ENG 326:** *STUDIES IN AMERICAN ROMANTICISM* **3 s.h.**
Studies a selected group of writers to illustrate their contributions to American art and thought and their relationships with the development of Romanticism in the first half of the 19th century. Emphasizes Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman. Fall, odd-numbered years.
- ENG 327:** *STUDIES IN AMERICAN REALISM AND NATURALISM* **3 s.h.**
Studies a selected group of writers to illustrate the development of realism and naturalism in American literature in the latter half of the 19th century. Emphasizes Twain, James, Howells, Crane, Norris, and Dickinson. Spring, even-numbered years.
- ENG 328:** *STUDIES IN AMERICAN LITERATURE FROM 1900 TO 1945* **3 s.h.**
Examines the period less as a unified site to be “surveyed” in terms of fiction, poetry, and drama than as a problematic field to be studied in terms of race, gender, and class. Authors include Wharton, Cather, Dos Passos, Hemingway, Hurston, and Faulkner. Fall, annually.
- ENG 329:** *STUDIES IN CONTEMPORARY AMERICAN LITERATURE* **3 s.h.**
Investigates the very idea of a canon for American literature since World War II and discusses strategies for reading such representative authors as Roth, Coover, Oates, and Morrison. Spring, odd-numbered years.
- ENG 331:** *STUDIES IN THE AFRICAN-AMERICAN NOVEL* **3 s.h.**
Studies in depth the development of the African-American novel from its origins in the slave narratives to the present. How do African-American novels fit into the larger tradition of African-American literature? What modes of thematic and narrative discourse mark the particular characteristics of the African-American novel? Includes Douglass, Chesnut, McKay, Hurston, Wright, Ellison, Reed, Walker, and Morrison.
- ENG 332:** *19TH-CENTURY BRITISH NOVEL* **3 s.h.**
Explores the English novel from Austen to Hardy. Nine or ten novels are studied with selections from Austen, Scott, Eliot, Dickens, Thackeray, Disraeli, Meredith, Trollope, the Brontës, Gaskell. No prerequisite; however, one semester of English literature survey (ENG 221 or 222) is recommended. Fall, even-numbered years.
- ENG 334:** *MODERN BRITISH LITERATURE* **3 s.h.**
Examines the relationship between social and cultural change and the creation of literature and theory in British literature from 1900 to the close of World War II. Provides an opportunity to compare genres and to study key literary movements. No prerequisite. One semester of ENG 221 or 222 is recommended. Spring, even-numbered years.
- ENG 335:** *CONTEMPORARY BRITISH LITERATURE* **3 s.h.**
Examines British literature produced from the end of World War II to the present. Provides an opportunity to compare genres and to study significant literary and cultural movements. No prerequisite. One semester of ENG 221 or 222 is recommended. Spring, odd-numbered years.
- ENG 339:** *SHORT STORIES* **3 s.h.**
Traces the evolution of the short story from the 19th century to the present. Elements such as plot, character, theme, style, and point of view are studied. Readings are drawn from a variety of writers representing a diversity of cultures: Poe, deMaupassant, Chopin, Gilman, Faulkner, Ellison, Kafka, Hurston, Fuentes, Lessing, Silko, Walker, and LeGuin. Spring, annually.
- ENG 341:** *20TH-CENTURY POETRY* **3 s.h.**
Provides explication and discussion of works by such writers as Yeats, Frost, Eliot, Plath, L. Hughes, Auden, Brooks, and Rich. Fall, odd-numbered years.
- ENG 342:** *ENGLISH DRAMA TO 1642* **3 s.h.**
Presents an overview of English drama in its first two phases, Medieval and Renaissance (non-Shakespearean). Includes literary, theatrical, and cultural studies. No prerequisite. Fall, odd-numbered years.
- ENG 343:** *ENGLISH DRAMA FROM 1660 TO 1850* **3 s.h.**
Presents some of the major forms of drama in this extremely varied 200-year period, with possible focuses on heroic tragedy, Restoration comedy, sentimental comedy, Victorian melodrama, and the precursors of modern English drama. No prerequisite. Fall, even-numbered years.
- ENG 344:** *MODERN DRAMA TO 1950* **3 s.h.**
Surveys influential dramatic literature of the Continental, British, and American theater from 1850 to 1950 through lectures, discussion, and experiences related to the modern stage. No prerequisite. Spring, even-numbered years.
- ENG 345:** *CONTEMPORARY DRAMA* **3 s.h.**
Explores the diversity and vitality of British, American, and World theater since 1950 through selected texts and theatrical experiences. No prerequisite. Spring, odd-numbered years.
- ENG 350:** *MOVIE GENRES* **3 s.h.**
Explores genre as sets of narrative conventions that have vitalized American movies. Demonstrates genre to be a socializing force as well as a mirror of social change. Considers representations of race, gender, and class in various genres. Spring, odd-numbered years.
- ENG/ANTH 352:** *TOPICS IN FOLKLORE* **3 s.h.**
Provides intensive study of one or more aspects of folklore. Focuses on one or more folk groups, a particular folk genre, folklore and popular culture, or folklore and literature. Provides students with fieldwork experience—collection, transcription, classification—and methods of analysis of oral traditions. No prerequisite. Spring, annually.

- ENG 353/ANTH 364: AMERICAN VOICES** **3 s.h.**
Provides an introduction to American dialectology and sociolinguistics. Emphasizes the great diversity and vitality of American English. Covers the causes and mechanisms of linguistic change, the role of language differences in society, and the relevance of dialectology to language teaching. Pays special attention to the regional speech patterns of Pennsylvania. No prerequisite. Spring, odd-numbered years.
- ENG 354: STUDIES IN TOPICS IN WORLD LITERATURE** **3 s.h.**
Provides an in-depth study of world literature through the examination of a particular literary genre, movement, or theme that crosses national or cultural boundaries; or a significant national or cross-cultural English language tradition that falls outside the conventional canons of British and American literature. Fall, odd-numbered years.
- ENG 355: STUDIES IN TOPICS IN LITERARY THEORY** **3 s.h.**
Provides a historical study of literary criticism and aesthetic theory with emphasis upon modern trends. Spring, even-numbered years.
- ENG 356: RHETORICAL THEORY FOR WRITERS** **3 s.h.**
Explores such questions as: why do we communicate in writing, how does writing help us learn, how does writing facilitate, change or affect the nature of communication? Students examine in detail the works of figures such as Plato, Cicero, Nietzsche, Bakhtin, Derrida, and Kristeva, and study how rhetorical theory is used in everyday communication. Prerequisite: Exemption from or successful completion of the general education writing requirement.
- ENG 361: ENGLISH STUDY OFF-CAMPUS** **3 s.h.**
Provides students with an opportunity to travel to significant literary and historical sites while reading and discussing related texts. Students would travel during university breaks and would meet with the instructor for orientation prior to travel. After travel is completed, students will turn in assignments according to a schedule developed by instructor. No prerequisite. Spring, even-numbered years on demand.
- ENG 365: IMAGES OF WOMEN IN LITERATURE** **3 s.h.**
Examines images of women in myth, literature, and the culture at large and applies contemporary feminist critical approaches to the study of these images. Spring, annually.
- ENG/ANTH 380: LANGUAGE AND CULTURE** **3 s.h.**
An introduction to linguistic anthropology. Focuses on the main areas of intersection between language and culture. Topics may include: animal communication systems; primate language studies; the evolution of language; linguistic diversity; linguistic relativity (a.k.a. the Sapir-Whorf Hypothesis); language endangerment and revival; nonverbal communication; linguistic field methods; ethnopoetics; sociolinguistics; language and identity; language and gender; and the ethnography of speaking. From an examination of such topics, students will learn to see how people use language to create and maintain their cultures, and to recognize the ways in which language itself influences human thought and behavior.
- ENG 401: CHAUCER** **3 s.h.**
Studies in Middle English of Chaucer's early poems, *Troilus and Criseyde*, and the *Canterbury Tales*. Spring, even-numbered years.
- ENG 404: ADVANCED CREATIVE WRITING** **3 s.h.**
Advanced course for experienced creative writing students. Provides independent and extensive explorations into a creative writing project. Helps prepare students for future writing careers and/or graduate school in creative and professional writing.
- ENG 410: STUDIES IN ARTHURIAN LITERATURE AND FILM** **3 s.h.**
Examines texts and issues in the Arthurian tradition, from early medieval to modern. Texts will vary, but may include Chretien de Troyes' *Arthurian Romances*, Sir Thomas Malory's *Morte D'Arthur*, Tennyson's *Idylls of the King*, T.H. White's *Once and Future King*, Zimmer-Bradley's *Mists of Avalon* and the films *Excalibur*, *Lancelot*, and *King Arthur*. Texts may be approached through the lens of genre, historical development, cultural/political context, depiction and development of characters.
- ENG 412: SHAKESPEARE: COMEDIES AND HISTORIES** **3 s.h.**
Provides study and discussion of problems of style, characterization, and motivation in Shakespeare's maturing and experimental comedies and his history plays. Also examines how the plays reflect and challenge the cultural attitudes of Shakespeare's time. Fall, annually.
- ENG 413: SHAKESPEARE: TRAGEDIES AND ROMANCES** **3 s.h.**
Provides study and discussion of problems of style, characterization, and motivation in Shakespeare's tragedies and romances. Also examines the production practices of Shakespeare's time and contemporary production approaches. Spring, annually.
- ENG 454: THE NOVEL ACROSS CULTURES** **3 s.h.**
Examines the genre of the novel from an international perspective, with readings from several national or cultural traditions. Includes an overview of theoretical approaches to the novel that focus on its adaptability across national and cultural borders. Spring, even-numbered years.
- ENG 455: STUDIES IN DRAMA AND DRAMATIC THEORY** **3 s.h.**
Provides an intensive exploration of drama, concentrating especially on contemporary developments in both drama itself and in the theoretical study of drama, including recent critical developments in ethnic, feminist, and performance approaches to dramatic texts. Focus of course varies. No prerequisite.
- ENG/ANTH 457: INTRODUCTION TO LINGUISTICS** **3 s.h.**
Presents key concepts and basic analytical procedures common to many contemporary linguistic theories. Covers phonetics and phonology, morphology, and syntax. Analyzes the integration of these sub-systems in the overall design of a generative grammar. Prerequisite: ENG/ANTH 262. Fall, annually.
- ENG 458: HISTORY OF THE ENGLISH LANGUAGE** **3 s.h.**
Studies the history of the language, including its origins and changes in structure, usage, pronunciation, spelling, vocabulary, and meaning. Intensive readings in Old and Middle English. Spring, even-numbered years.
- ENG 459: LANGUAGE ACQUISITION ACROSS CULTURES** **3 s.h.**
Introduces current research in first and second language acquisition with emphasis on the preparation of classroom teachers and other professionals to work with children/adults coming from a background where languages other than English are spoken. Prerequisite: ENG 262 recommended but not required. Spring, odd-numbered years.

- ENG 460:** *INDEPENDENT STUDY* **1-6 s.h.**
Permits students to explore an area of special interest in the English language or its literature. Students must develop a plan of study, secure the approval of a member of the English faculty willing to supervise the project, and submit the plan to the department chair. Maximum credits—six. Prerequisite: Junior or senior standing.
- ENG 462:** *METHODOLOGY IN TEACHING ENGLISH TO NON-NATIVE SPEAKERS* **1-6 s.h.**
This course provides an overview of the current trends in Teaching English as a Second Language Methodology. It will explore techniques that may be used to teach students who are part of the regular classroom but who need to develop skills in language to be able to succeed. Techniques involving speaking, reading, writing and listening activities will be discussed along with interactive exercises utilizing the culturally diverse language styles found in a regular classroom. Students will be trained to utilize the comprehensible input of native-speaking members of the class as well as to improve upon their own interaction style. Major approaches and methods in language teaching such as grammar translation, audiolingualism, communicative language teaching, and the natural approach will be discussed, along with syllabus design, teaching activities, teacher and learner roles, and materials.
- ENG 463:** *SECOND LANGUAGE ACQUISITION* **1-6 s.h.**
This course provides an overview of the current state of the art in Second Language Acquisition studies and explores the linguistic, psycholinguistic, and sociolinguistic factors in learning a second language.
- ENG 470:** *LITERATURE FOR YOUNG ADULTS* **3 s.h.**
Introduces future teachers to classical and contemporary literature for young adults. Includes works from various genres written by American, British, and American minority authors. Also includes some world literature and film. In addition to developing first-hand knowledge of important works in the field, students will also become familiar with its history and with the controversies that have shaped it. Fall, annually.
- ENG 480:** *WRITING FOR THE PROFESSIONS* **3 s.h.**
A student-centered workshop in applied writing—specifically, writing for the professions: business, education, medicine, law, and real estate, among others, including academic research itself. Prerequisites: ENG 301 or ENG 307 and consent of instructor. Students should not enroll for the course until they have some particular professional project or target in mind.
- ENG 482:** *COMPOSITION: THEORY AND PRACTICE* **3 s.h.**
Provides a systematic study of theory and practice in the teaching of composition, conducted through workshop methods. Requires extensive writing and a major written project. Prerequisites: secondary education majors in English must have completed ENG 111, 200, or 301 and have taken or be taking their methods course; others by permission of the instructor. Fall, annually.
- ENG 499:** *SENIOR SEMINAR* **3 s.h.**
Explores in a seminar setting a theme, an idea, or an issue beyond the scope of individual courses. Studies primary literature and relevant criticism. A major paper is required of all participants; other course requirements will be established by the instructor prior to the semester of offering. Required of senior liberal arts English majors. Fall, annually.

French

FRENCH, B.A. See Modern Languages and Cultures.

Geology/Earth Science

Anthropology, Geography, and Earth Science

Department, Paul Ryberg, Ph.D., chair

335 Peirce Science Center

Telephone: 393-2317

E-mail address: pryberg@clarion.edu

Website: www.clarion.edu/ages/

Professors: Ryberg, Vento, Zamzow

Assistant Professor: Shulik

Have you ever wondered how a mountain forms? Or where the water you drink comes from? Or where we are going to safely put the huge quantities of waste materials a modern society produces? Or why “fossil fuels” are called that? Or been captivated by dinosaurs or gemstones? Have you wondered about earthquakes, or landslides, or floods? If so, you may want to investigate geology—the science that studies all of these and much more. As an intellectual field of study, geology attempts to understand how all the features of the earth are formed and in what historical sequence. As an applied field of study, geologists take the basic understanding of earth processes and attempt to predict where oil, gas, coal and other earth resources are located and how best to extract them. They may also help to locate

and predict geologic hazards such as earthquakes, volcanic eruptions, and landslides. Others may apply the knowledge of geologic processes to predicting human occupation sites for archaeologists, and then help interpret the environment when the site was occupied. Others, sometimes more correctly called planetologists, use knowledge of planet earth to understand other planets in the solar system. A few even assist in solving crimes. Clearly, geology is a varied field of study with hundreds of sub-specialties within it.

In the AGES Department, students can get a strong foundation in the basics of geology with the geology degree, a beginning that would prepare them for graduate studies and employment in a number of commercial firms and governmental agencies. Those with a specific interest in environmental applications may wish to enroll in the environmental geoscience program. This is specifically designed to prepare students to work in the rapidly expanding environmental consulting field. Individuals who would like to teach in the public schools will want to investigate the Secondary Education—Earth and Space Science program. Those who would like to combine an interest in the earth with another field of study may want to enroll in a dual major or a minor in earth science. A distinctive feature of

the geology program at Clarion is the opportunity to include GIS (Geographic Information Systems) classes, which add a powerful mapping and spatial analysis tool to the skills of our graduates.

GEOLOGY, B.S.54-66 credits
Required: ES 150, 250, 255, 350, 355, 360, 370, 390; 15 additional hours must be elected from the following courses, GEOG/ES 345, 385, 400, 425, 450, 470, 490; ES 260, 270, 280, 300, 330, 375, 404; GEOG 125; BIOL 111, 155/165, 156/166, 202; CHEM 351 or Field Camp.* In addition to these 46 credits, the following courses are required: CHEM 153/163, 154/164; PH 251, 252; MATH 260.

*In cooperation with another college or university.

SECONDARY EDUCATION, B.S.Ed.

Certification for grades K-12, Earth Science (see under Secondary Education Earth Science), page 173.

ENVIRONMENTAL GEOSCIENCE, B.S.54-66 credits

Required: ES 150, 255, 260, 280, 330, 455, 470, BIOL 155/165, 156/166, 202; CHEM 153/163, 154/164, and MATH 221; and 18 credits in one (or more) of the following tracks:

Hydrogeology track: ES 250, 345, 350, 360, 370, 390, 404, GEOG/ES 490; CHEM 351/361, MATH 171, 260; BSAD 340, PH 251, 252.

Surficial Geology track: ES 250, 345, 350, 355, 360, 370, 375, 390, 400, 404, 425; GEOG/ES 490; BSAD 340; PH 251, 252.

Atmospheric track: ES 270, 380, 385, GEOG/ES 490; PH 251, 252; BSAD 340.

The AGES Department also offers a program in secondary education; page 173.

Earth Science Courses

NOTE: Earth Science (ES) courses carry natural science credits only.

- ES 111: BASIC EARTH SCIENCE** **3 s.h.**
 Surveys the earth sciences, including Earth-space relations. Includes Earth motions, development of landforms, weather and climate, soils and related vegetation, water as a resource, and oceans. Emphasizes the lithosphere (mountain building and erosion) and the atmosphere. Each semester.
- ES 150: PHYSICAL GEOLOGY WITH LABORATORY** **4 s.h.**
 Study of the earth, including minerals and rocks, and the processes, both constructional and destructional, which have shaped it since it was formed. Constructional processes include volcanism, mountain building, and sedimentation. Destructional processes include the erosional activity of streams, glaciers, ground water, waves, and wind. Acquaints students with the methods and work of geologists and with some of the research at the frontiers of geology. Two hours lecture, two hours laboratory. No prerequisites. Each semester.
- ES/PH 200: SOLAR SYSTEM ASTRONOMY** **3 s.h.**
 Examines the motions of Earth, moon, and the planets and their effects on the appearance of the sky; the nature of the sun and the planets; the instruments of the astronomer; and the role the history of astronomy played in the development of our understanding of the sky. Includes constellation identification through the use of the planetarium. Each semester.
- ES/PH 201: STELLAR ASTRONOMY** **3 s.h.**
 Explores human understanding of the nature, formation, and evolution of those celestial objects that lie beyond the solar system. Includes stellar properties and spectra, stellar evolution, special stars and star systems, the milky way and other galaxies, cosmology, and cosmogony. Uses the planetarium for constellation study and the development of coordinate systems. Prerequisite: ES 200. Spring, annually.
- ES 222: DINOSAURS: MYTH AND REALITY** **3 s.h.**
 General education course introduces students to the broader issues of scientific endeavor, using dinosaurs as the specific topic of investigation. Addresses the nature of science, the interaction of scientific ideas across disciplinary boundaries. Requires library research outside of class. Spring, annually.
- ES 250: HISTORICAL GEOLOGY WITH LABORATORY** **4 s.h.**
 Deals with the changes the Earth has experienced through time. Emphasizes the geologic evidence for plate tectonic movements of ocean basins and continents, uplift and erosion of mountains, and deposition of strata in various sedimentary basins. Examines in detail the evolutionary changes and mass extinction of life-forms, as preserved in the fossil record. Prerequisite: ES 150 (may be taken concurrently). Offered Spring Semester annually.
- ES 255: GEOMORPHOLOGY WITH LABORATORY** **4 s.h.**
 Study of the physical forces that sculpt and modify the landforms of the earth, including chiefly weathering, streams, glaciation, and shore processes. Includes some preliminary work on topographic and geologic maps and rocks. Prerequisite: ES 150. Offered annually.
- ES 260: ENVIRONMENTAL GEOLOGY** **3 s.h.**
 Examines the uses of geology in the solution of human problems with the physical environment. Includes hazardous geologic environments, mineral and energy resources, water supply, waste disposal, and the uses of geology in urban and regional planning. Draws many examples from western Pennsylvania. Prerequisite: ES 150 or 111. Offered annually.
- ES 270: OCEANOGRAPHY** **3 s.h.**
 A study of the physical properties, marine biology, chemistry, and geology of the oceans, and to a minor extent, the role of the sea in the history, culture, and technical developments of humankind. Once annually.
- ES 280: METEOROLOGY** **3 s.h.**
 Introduces the earth's atmosphere. Emphasizes the laws and underlying principles of atmospheric motion and change, earth-sun relationships, atmospheric composition and structure, the general circulation of the atmosphere, winds and wind systems, the precipitation process, and the genesis and life cycle of storms.

ES 300: SPECIAL TOPICS

Topics of special interest in various areas of earth science. The professor selects and designs the format most suitable to the study. Enrollment by consent of the instructor.

ES 310: INTRODUCTION TO GEOPHYSICS**3 s.h.**

Explores theoretical and exploration geophysics, including physical characteristics of the earth, such as its shape, rotation, and procession; seismology and the interior conditions of the earth; geomagnetism and paleomagnetism; radioactivity and dating techniques; gravity and tides; internal heat; well logging; electrical techniques such as resistivity; and plate tectonics and its mechanisms. Prerequisites: ES 150, 250, PH 251, 252; or permission of instructor. Every other year.

ES 330: HYDROGEOLOGY WITH LABORATORY**4 s.h.**

Hydrogeology deals with both surface water and groundwater in the hydrologic cycle using quantitative methods. Examines aquifer systems, water wells, water quality, water resource management, groundwater flow, and pollutant transport in detail during labs, field trips, and site tours. Prerequisite: ES 150. Offered Fall Semester annually.

ES/GEOG 345: COMPUTER CARTOGRAPHY WITH LABORATORY**4 s.h.**

Systematic study of the newest dimension of cartography in use today. Designing and constructing computer maps is an integral part of the course. Students create computer maps with a number of programs, including Atlas Graphics, Atlas Draw, Microam, Map Info, PC Globe, PS USA, Systate, etc. Introduces the use of the digitizer. Every other spring.

ES 350: STRUCTURAL GEOLOGY WITH LABORATORY**4 s.h.**

Investigates the geometry, origin, and recognition of the main structural features of the rocks of the earth's crust, including folds, faults, joints, unconformities, larger igneous bodies, cleavage, lineation, etc. Explores interpreting structure from geologic maps, structural petrology, and geophysical methods used in structural geology. Prerequisite: ES 150. Every third semester.

ES 355: INVERTEBRATE PALEONTOLOGY**3 s.h.**

Explores the outstanding invertebrate animals preserved in the fossil record. Examines the nature of the fossil record itself, evolution as shown by fossils, and classification problems in paleontology. Prerequisite: ES 250. Every other year.

ES 360: MINERALOGY (MINERALS) WITH LABORATORY**4 s.h.**

Examines the identification, uses, physical and chemical properties, occurrence, origin, and crystallography of the common minerals. Prerequisite: At least high school chemistry. Every third semester.

ES 370: PETROLOGY (ROCKS) WITH LABORATORY**4 s.h.**

The identification, occurrence and origin, classification, physical and chemical properties, and uses of the common rocks. Includes a brief study of the important rock-forming minerals. Prerequisite: ES 150. Every third semester.

ES 375: MODERN DEPOSITIONAL SYSTEMS**3 s.h.**

Overview of the major sedimentary depositional systems, with primary emphasis upon modern environments and processes. Addresses the dynamic processes at work in the major environments and upon the sedimentary features that result, which, in turn, may permit recognition of each environment in the geological record. Prerequisites: ES 150, 250, 360, and 370 are recommended.

ES 380: SEVERE WEATHER**3 s.h.**

Investigates various types of severe and unusual weather. The course seeks enhanced understanding of the causes, movement, life cycles, and dissipation of severe weather events such as: mid-latitude cyclones, blizzards, thunderstorms, tornadoes, hurricanes, lightning, hail, floods, droughts, freezing rain, microbursts, local and regional air pollution, greenhouse warming, and ozone depletion. Acceptable for social science or natural science credits. Prerequisite: ES 280.

ES/GEOG 385: CLIMATOLOGY**3 s.h.**

Examines the major components of climate and climate change. Analyzes physical aspects of the atmosphere as a series of long-term weather phenomena. Studies regional characteristics of climate on the basis of worldwide weather patterns. Emphasizes how applied aspects of climate demonstrate the interrelationships and importance of both physical and regional climatology to humankind Also examines the causes of long-term climate change and variability. Acceptable for social science or natural science credits. Prerequisite: ES 280.

ES 390: STRATIGRAPHY AND SEDIMENTARY PETROLOGY**4 s.h.**

Systematic study of clastic and carbonate stratigraphic sequences, emphasizing interpretation of lithofacies, tectono-sedimentary settings, and sequence stratigraphy. Laboratories include study of petrologic/diagenetic characteristics of sedimentary strata, recent advances in seismic stratigraphy, and basin analysis. Prerequisite: ES 150. (ES 250, ES 360, and ES 370 are recommended.) Every third semester.

ES/GEOG 400: INTRODUCTION TO REMOTE SENSING WITH LABORATORY**3 s.h.**

Explores aerial photographs for geographic investigation of physical and cultural features of the landscape; the application of remote sensing to topographic and planimetric map construction, agricultural and land use identification, landform study, and forestry. Each Fall Semester.

ES/GEOG 404: SOILS WITH LABORATORY**4 s.h.**

Comprehensively examines the classification, formation, and interpretation of soils. Students examine the processes of soil classification (both the zonal classification and the soil taxonomy classification), soil formation (parent material, climate, slope, time and organic activity), and the interpretation of pedogenic sequences (as it relates to deposition, diagenesis, and climate change). Laboratory (one credit, two hours) complements lecture portion of the course. Emphasizes the field interpretation of soils as well as the geochemistry and textual classification of soils. Prerequisites: ES 150 and 255 or permission of the instructor.

ES/GEOG 425: ADVANCED REMOTE SENSING WITH LABORATORY**3 s.h.**

Examines satellite-based earth imaging instruments, data sources, and products, and their applications to land use management, geologic assessments, agriculture, forestry, soil resources, archeology, meteorology, and oceanography. Utilizes visual and digital data. Prerequisite: GEOG 400 (can be waived by permission of instructor). Every Spring.

ES/GEOG 450: FIELD GEOGRAPHY WITH LABORATORY**3 s.h.**

Explores techniques essential to geographic field investigation. Emphasizes practical, first-hand experiences in the field where students learn the techniques and procedures of rural and urban land usage by surveying and field research. Prerequisite: Consent of instructor. Summer, on demand.

ES 455: FIELD METHODS IN ENVIRONMENTAL GEOSCIENCE**4 s.h.**

Field-based course provides upper-level undergraduates hands-on experience in hydrogeology, meteorology, bedrock, and surficial geology projects. Group projects include analysis of a small watershed, geologic mapping, and measurement of a stratigraphic section, soils and terrace mapping, and surveying a strip mine remediation site. Emphasizes proper use of traditional and state-of-the-art instruments and equipment. Prerequisites: ES 150 and 330. Offered Summer Pre-Session annually.

ES/GEOG 470: INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS WITH LABORATORY**4 s.h.**

Addresses basic concepts and principles of geographic information systems, data models, data structures, applications, and technical issues. Lab focuses on how these basic principles are implemented in a GIS. These include an entire sequence of building spatial database: data capturing, editing, adding attributes, building topography, registering layers to real-world coordinates, making map compositions, data conversion, and basic analysis. Fall, annually.

ES/BIOL 476/**SCED 576: SCIENCE, TECHNOLOGY, AND SOCIETY: TOPICS FOR TEACHERS****3 s.h.**

Interdisciplinary course covers topics in biology, earth science, chemistry, and physics. Acquaints students with information, curricula, and teaching methodologies appropriate for teaching STS topics in traditional science courses. Involves students in hands-on activities concerning science computer software, testing water for chemical and biological agents, and remote sensing techniques in geology, geography, physics, and medicine. Ethical issues and scientific principles concerning computers, energy, nuclear waste, biotechnology, and others, will be investigated and discussed. Participants will develop curriculum activities for implementation in their science discipline. Required course for environmental biology, general science, and earth science certification. Prerequisite: Junior standing. Annually.

ES /GEOG 490: ADVANCED GEOGRAPHIC INFORMATION SYSTEMS WITH LABORATORY**3 s.h.**

Provides students with the ability to apply GIS for spatial problem solving in applied settings. Lecture and application-/project-based. Lecture covers spatial modeling and analysis based on a raster data structure. Laboratory sessions introduce students to three-dimensional surface modeling, cost-distance analysis, runoff modeling, and diffusion analysis. Prerequisite: GEOG/ES 470. Each Spring Semester.

Geography

Department of Anthropology, Geography, and Earth Science (AGES); Paul Ryberg, Ph.D., chair

335 Peirce Science Center

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Professors: Howes, McGreevy, McKay, Vega**Associate Professors:** Ayad, Thomas

People have always sought to understand the world they inhabit. Geography begins with this curiosity about both the familiar and the remote, but it does not stop with a simple list of what is where. It seeks to know why things are where they are. Geography is an integrative discipline concerned with the nature and significance of the patterns, places, and landscapes that make up the earth's surface. It embraces both the natural and human and is particularly concerned with how humans interact with the earth's natural systems. The last fifteen years have seen a resurgence of geographical study at all levels. Economic globalization has made geographical knowledge increasingly crucial. In addition, the digital revolution has transformed geography's traditional mapping tools into geographic information systems (GIS) that can combine and analyze satellite and other kinds of data. Today there is a large and expanding job market for graduates with GIS skills. Geographers' multidimensional

training allows them to work in the environmental field, as well as in business, planning, and education. There is also a demand for students in geography graduate programs where most students are fully supported.

As part of the AGES Department, the geography program at Clarion is diverse and cross-disciplinary. The faculty is engaged in local and international research. Students often work as interns and collaborate on faculty projects. The department maintains a state-of-the-art GIS laboratory as well as a map library.

GEOGRAPHY, MINOR 18 credits

There are no required courses, however students will have to complete nine credits at the 300 level and at least three credits in each of the following areas: Human Geography, Physical Geography, and Techniques in Geography.

GEOGRAPHY INFORMATION SYSTEMS, MINOR 18 credits

Students choose either GEOG/ES 125 or GEOG/ES 345; then three from this list: GEOG/ES 400, 425, 470 and 490, as well as two additional courses from Mathematics (MATH 100-499) and/or CIS (except for CIS 110 and 120).

GEOGRAPHY SUSTAINABLE PLANNING, MINOR 19 credits

Required: ENVR/PH 261, ENVR 490; 1 hour credit in BIOL 499, CHEM 465 or 466, ECON 491, PH 498 or 499, HON 450; two courses in BIOL 202, 211, 405, ES 260, 301, 320, GEOG 301, 320; two courses in BSAD 340, 341, ECON 202, ENVR 275, GEOG 115, 310, PHIL 358, CMST 333.

Geography Courses

NOTE: Geography (GEOG) courses carry social science credit only.

- GEOG 100: INTRODUCTION TO WORLD GEOGRAPHY** **3 s.h.**
Provides an overview of important human and physical characteristics of the world's cultural realms. Examines issues of economic and social development, and religions and cultures found around the world in a regional or systematic context. Explores contemporary environmental, political, and ethnic/racial problems.
- GEOG 115: CONSERVATION OF NATURAL RESOURCES** **3 s.h.**
Integrates the social and natural sciences by examining the concepts, methodologies and history of the Conservation of Natural Resources. Includes soil, water, land, forest, wildlife, energy, clean air, and historic resources. Explores the many controversial issues surrounding the management of public lands and regulation of private land. Examines the rationale and logic of federal and state environmental laws. Every fall or spring. (Values Flag)
- GEOG 125: MAP INTERPRETATION** **3 s.h.**
Broad study of maps, charts, and atlases. Develops awareness of the variety of maps available and promotes skill in their use. Emphasizes understanding map characteristics and properties needed for effective map usage, projections upon which maps are commonly drawn, co-ordinates and grid systems, map scales, aerial representations of relief, and statistical data. Prerequisite: Consent of instructor. Offered annually.
- GEOG 244: THE COUNTRY AND THE CITY: PLANNING THE HUMAN ENVIRONMENT** **3 s.h.**
Analyzes the geographic structure of rural and urban life, emphasizing the environmental, economic, and transport connections between cities and rural areas. Focuses both on the fundamental question of planning philosophy (What constitutes a suitable human environment?) and on the methods by which planning goals might be reached. Offered occasionally.
- GEOG 250: GEOGRAPHY OF EUROPE** **3 s.h.**
Study of European landscapes and regions. Students develop an understanding of the geographic basis of Europe's major economic and social problems. Emphasizes Western Europe. The Soviet Union is not included in this course. Recommended for majors in history and social science. Every other year.
- GEOG 252: GEOGRAPHY OF LATIN AMERICA** **3 s.h.**
Focuses on the complex social, economic, and political problems confronting this diverse region. Gives special attention to relationships between Latin America, the United States, and other countries. Includes a synthesis of the physical and cultural landscapes of the region. Emphasizes understanding developmental processes in Latin American nations and the geographical importance of the region today and in the 21st century. No prerequisites. Offered occasionally.
- GEOG 256: GEOGRAPHY OF THE CARIBBEAN** **3 s.h.**
Study of the Caribbean, with a special tour on the geography and the cultural and socio-economic aspects of the Caribbean. Emphasizes socio-economic history of slavery and the plantation economy, including issues of race relations and their spatial dimensions. Traces the economic transition away from the plantation economy, the rise of an active black leadership, urbanization and urban planning in the region, attempts at economic and political regional integration, economic development strategies of small Caribbean islands, and the impact of tourism as the new "mono" culture of the region. Offered occasionally.
- GEOG 257: GEOGRAPHY OF THE UNITED STATES AND CANADA** **3 s.h.**
Analyzes geographic problems, natural and cultural, of the United States and Canada; the synthesis of physical, biotic, economic, and social patterns and problems of geographic regions of North America; the interrelationship of North American political structures and their ties with the rest of the world. Each semester.
- GEOG 258: GEOGRAPHY OF PENNSYLVANIA** **3 s.h.**
Regional analysis of Pennsylvania emphasizing man's cultural and economic response to environmental factors. Gives special attention to the resources of the state, analyzing their extent, their use, the need for well-directed conservation, and the regional planning program of the commonwealth. Offered occasionally.
- GEOG 260: ECONOMIC GEOGRAPHY** **3 s.h.**
Explores the production, exchange, and use of the basic commodities of the world; the relationship between the physical factors and economic conditions and the patterns of major economic activities, world trade, and trade routes; economic landscapes; and problems of economic development. Recommended for majors in economics, history, and political science. Every other year.
- GEOG 265: TRADE AND TRANSPORTATION** **3 s.h.**
Geographic inquiry into worldwide forces of supply and demand and related transport modes and media. Examines the central producer and service functions of population centers; world trade patterns of commodities, economic blocs, stages of economic development; and problems related to the economic interdependence of regions and nations. Based on concepts learned in GEOG 260. Every other year.
- GEOG 300: SPECIAL TOPICS**
Topics of special interest in various areas of physical, human, or regional geography. Professor selects format most suitable to the study. Enrollment by consent of the instructor.
- GEOG 310: GEOGRAPHY, SUSTAINABLE DEVELOPMENT, AND THE DEVELOPING WORLD** **3 s.h.**
Examines the commonalities developing countries have faced and continue to face in their push toward development, particularly as they relate to the spatial aspects affecting the conditions of the development process. Analyzes theories of growth and social and economic development, as well as the historical and contemporary relationship between the "developed" and the developing world. Discusses issues such as population growth and human settlement patterns, the rural/urban dichotomy, industrialization and urbanization, regional trading blocks, transportation and development, and the socio-economic development planning. Examines the impact of cultural elements such as religion and the role of women in development. Writing-intensive course. No prerequisite. On demand.

GEOG 315: HUMAN GEOGRAPHY: RACE, CLASS, AND GENDER, AND THEIR SPATIAL DIMENSIONS 3 s.h.

Focuses on methods and theories geographers have used to explore how social relations of race, class, and gender have been structured, influenced, and expressed spatially. Exposes students to social/spatial construction theories (the social construction of race and gender, the social production of space, and the role of space in the construction of gender and race), and “postmodern” economic restructuring and its impact on the location and (race, class, and gender component of the) employment structure of “flexible” industries. Explores contemporary theories on the role of race/gender and class intersection in the reproduction process, and the colonial and postcolonial geographies of gender and race. Writing intensive course. Prerequisite: None. Offered fall, odd numbered years.

GEOG/ES 345: COMPUTER CARTOGRAPHY WITH LABORATORY 4 s.h.

Systematic study of the newest dimension of cartography in use today. Designing and constructing computer maps is an integral part of the course. Students create computer maps with a number of programs, including Atlas Graphics, Atlas Draw, Microam, Map Info. PC Globe, PS USA, Systate, etc. Introduces students to the use of the digitizer. Every other spring.

GEOG/ES 385: CLIMATOLOGY 3 s.h.

Examines the major components of climate and climate change. Analyzes physical aspects of the atmosphere as a series of long-term weather phenomena. Studies regional characteristics of climate on the basis of worldwide weather patterns. Emphasizes how applied aspects of climate demonstrates the interrelationships and importance of both physical and regional climatology to humankind. Also examines the causes of long-term climate change and variability. Acceptable for social science or natural science credits. Prerequisite: ES 280.

GEOG/ES 400: INTRODUCTION TO REMOTE SENSING WITH LABORATORY 3 s.h.

Study and assessment of the physical and cultural with Laboratory1 features of the earth using satellite images and aerial photographs. Uses black and white photos, color infrared photos, and digital satellite images for planimetric map construction, agricultural and vegetation studies, landform identification, land use assessment, and forestry. Laboratory activities include analysis of imagery in different zones of the electromagnetic spectrum, geometric correction of satellite images, and computer-assisted land cover classification. Each Fall Semester.

GEOG/ES 404: SOILS WITH LABORATORY 4 s.h.

Comprehensively examines the classification, formation, and interpretation of soils. Explores the processes of soil classification (both the zonal classification and the soil taxonomy classification). Includes soil formation (parent material, climate, slope, time, and organic activity) and the interpretation of pedogenic sequences (as it relates to deposition, diagenesis, and climate change). Laboratory (one credit, two hours) complements lecture. Emphasizes field interpretation, geochemistry, and textual classification of soils. Prerequisites: ES 150 and 255 or permission of the instructor.

GEOG/ES 425: ADVANCED REMOTE SENSING WITH LABORATORY 3 s.h.

Builds on the content of Introduction to Air Photo Interpretation and Remote Sensing. Uses Earth imaging satellites, such as Landsat, Spot, and Ikonos, and introduces new instruments, including Radarsat, Space Shuttle, and Space Station Earth imaging instruments. Examines various digital data sets including digital elevation models (DEMs), digital orthophotos and digital topographic maps. Students will work together on a drainage basin study to assess the sources of acid pollution using computer-assisted land cover classification, manual photo interpretation, and field reconnaissance to identify strip mine areas and acid discharging oil/gas wells. Prerequisite: GEOG/ES 400. Every Spring.

GEOG/ES 450: FIELD GEOGRAPHY WITH LABORATORY 3 s.h.

Systematic study of techniques essential to geographic field investigation. Emphasizes practical, first-hand experiences in the field where students learn techniques and procedures of rural and urban land usage by surveying and field research. Prerequisite: Consent of instructor. Summer on demand.

GEOG/ES 470: INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS 5 s.h.

Addresses basic concepts and principles of geographic information systems, data models, data structures, applications, and technical issues. Lab focuses on how these basic principles are implemented in a GIS. Lab includes an entire sequence of building spatial database: data capturing, editing, adding attributes, building topography, registering layers to real-world coordinates, making map compositions, data conversion, and basic analysis. Fall, annually.

GEOG/ES 490: ADVANCED GEOGRAPHIC INFORMATION SYSTEMS WITH LABORATORY 3 s.h.

Provides students with the ability to apply GIS for spatial problem solving in applied settings. Lecture- and application/project-based course. Lecture covers spatial modeling and analysis, based on a raster data structure. Laboratory sessions introduce students to three-dimensional surface modeling, cost-distance analysis, runoff modeling, and diffusion analysis. Prerequisite: GEOG/ES 470. Each Spring Semester.

GEOG 499: SEMINAR METHODS IN GEOGRAPHICAL RESEARCH 3 s.h.

Presents the opportunity for students with considerable interest and background in geography to utilize the various methods of analysis of the discipline to examine a concrete issue or research problem. Emphasizes analysis, synthesis, and communication. Students produce a written report and give an oral presentation of their project. Prerequisites: Junior or senior status in geography or permission of instructor. Every other spring.

German

GERMAN, MINOR. See Modern Languages and Cultures.

Gerontology

The minor in gerontology increases educational opportunity at Clarion University by teaching students from a variety of academic programs about the process of aging and the needs of the elderly. Pennsylvania is second only to Florida in percentage of residents over the age of 60. The program will train people to meet the needs of this increasing segment of our population and sharpen their ability to collaborate in decisions affecting this group.

The minor in gerontology is interdisciplinary as evidenced by the nature of the courses, the sponsorship by four different departments, the administration of the minor by a coordinator, an Interdisciplinary Gerontology Advisory Committee, and the establishment of an outside five-member Advisory Board whose members represent various segments of society at large.

Objectives of the program:

- to educate students from a variety of degree programs about the multifaceted changes and needs of the elderly;
- to prepare students from a variety of degree programs to work with the elderly;
- to provide structure and integration for existing courses in gerontology;
- to give formal and marketable recognition to students who have developed expertise in gerontology;
- to give students an interdisciplinary view of aging;
- to meet the needs and interests of nontraditional students;
- to promote faculty scholarship in an interdisciplinary field.

To enhance the development of gerontological instruction, the Association for Gerontology in Higher Education (AGHE) published its second edition of *Standards and Guidelines for Gerontology Programs* in 1990. These are the recognized standards and guidelines for gerontological education in the United States. Clarion’s minor in gerontology adheres to these standards. The Clarion curriculum is based on a required core and elective courses.

Students who wish to explore the possibility of the minor in gerontology may receive information from the coordinator or a member of the Gerontology Advisory Committee: Dr. Raymond Feroz (special education), Dr. Janina Jolley (psychology), Dr. Mary Jo Reef (political science, sociology, and philosophy), Mrs. Jane Fox Tarr (nursing), and Dr. Linda Benson (nursing).

GERONTOLOGY, MINOR21-24 credits
Required: SOC/PSY 253, BIOL 257, GERO 499, PSY 467, SOC 353; additional required courses (three-six credits): PSY 499, REHB 495, or SOC 499, NURS 450; and three elective credits: ECON 150 or NURS 365.

History

Department of History, Brian R. Dunn, Ph.D., chair

312 Founders Hall

Telephone: 393-2546

E-mail address: bdunn@clarion.edu

Website: www.artsci.clarion.edu/history/index

Professors: Dunn, Frakes, LaRue, Piott

Associate Professors: Kennedy, Pfannestiel

Assistant Professor: Robinson

History is the discipline of critical inquiry into the human past. The history major introduces students to the study of causes and consequences of change through an examination of social, political, economic, cultural, and intellectual developments over time. The enterprise of history is much more than a recitation of facts and dates. It encourages students to examine the values of their society and those of other societies. It prepares students to read critically, think analytically, and argue logically about the events and forces that have shaped past and present worlds. These skills have served students well in a wide range of careers in business, law, public policy and advocacy, education, journalism historical societies, museums, and archives.

The department’s goal is to help students view issues from a variety of perspectives. To assure breadth and depth, the history faculty offer courses in areas that span the globe as well as time. Students can take courses in the history of the United States, Europe, Russia, Asia, Africa, and Latin America. Students can also explore history through a number of distinctive specializations such as women’s history, labor history, the history of religion, and African American history, as well as through methods courses in historical research and historiography. In addition, the History Department offers minors in ancient Mediterranean studies and black studies.

The Black Studies Minor invites students to investigate the variety of black experiences in Africa and the African diaspora including North America, South America, the Caribbean, Europe, and Australia. At Clarion, students can study history as the foundation of a comprehensive, challenging liberal arts education while preparing themselves for numerous career opportunities.

HISTORY, B.A.51 credits
Required: U.S. history—12 credits; European history—15 credits; history of other geographical areas—6 credits; and 12 credits of history electives. HIST 410 and 298 are required. Students must complete either a foreign language or the quantitative skills option.

SECONDARY EDUCATION, B.S.ED.
 Certification for grades K-12, Social Studies (see under Secondary Education Social Studies), page 173.

HISTORY, MINOR 18 credits
Required: 18 credits (nine of which must be at 300- or 400-level).

HISTORY, MINOR IN ANCIENT MEDITERRANEAN STUDIES 18 credits
Required: 18 credits chosen from a menu of interdisciplinary courses.

HISTORY, MINOR IN BLACK STUDIES 18 credits
Required: 6 credits in history and 12 credits chosen from a menu of interdisciplinary courses.

History Courses

- HIST 110:** *COMPARATIVE HISTORY OF CIVILIZATION IN ASIA* **3 s.h.**
 Explores an overview of all of Asian history from the birth of civilization to the present. Emphasizes identification of a number of significant stages of historical development in the life of civilizations. Clarifies the sociocultural subdivisions within Asia. On demand.
- HIST 111:** *ANCIENT AND MEDIEVAL CIVILIZATION* **3 s.h.**
 Includes a survey of prehistoric cultures and civilization from its historical beginning to 1300. Presents a knowledge of the origins of the broad social, political, intellectual, and economic movements of the past from which the student may gain an understanding of civilization today. Each semester.
- HIST 112:** *EARLY MODERN CIVILIZATION, 1300 TO 1815* **3 s.h.**
 A study of significant movements and events from 1300 to 1815. Emphasizes the interrelationships between cultures of various world regions. Stresses the influence of European development on other world areas. Each semester.
- HIST 113:** *MODERN CIVILIZATION, 1789 TO THE PRESENT* **3 s.h.**
 A study of significant movements and events of 1789 to the present. Emphasizes interrelationships between the cultures of various world regions, with major attention on the influence European development has exerted on other world areas in the 19th and 20th centuries. Each semester.
- HIST 120:** *UNITED STATES HISTORY TO 1877* **3 s.h.**
 Surveys United States history from the period of exploration through the Reconstruction period. Each semester.
- HIST 121:** *UNITED STATES HISTORY SINCE 1877* **3 s.h.**
 Surveys United States history from Reconstruction to the present. Each semester.
- HIST 130:** *AFRICA TO 1800* **3 s.h.**
 Explores the history of Africa and its people from ancient times through the Atlantic slave trade. Emphasizes understanding the impact of cultural/ethnic diversity on the development of this history. Examines historical questions concerning the early record, migration, African kingdoms, trade and economy, impact of Islam on Africa, the European Age of Discovery, and the effects of the Atlantic slave trade upon African societies. On demand.
- HIST 131:** *AFRICA SINCE 1800* **3 s.h.**
 Explores the history of Africa and its people from the end of the Atlantic slave trade to the modern period. Includes the expansion of European influence on Africa during the 19th century, the partition of Africa, the many forms of African resistance to European rule, the impact of the Colonial era, African nationalism and independence struggles, and the challenges facing independent African states. On demand.
- HIST 215:** *TOPICS IN HISTORY* **1-3 s.h.**
 Topical approach to the study of history, permitting students to pursue an in-depth examination of selected problems. Introductory level. On demand.
- HIST 217:** *HISTORY OF WEST AFRICA* **3 s.h.**
 Examines the history of West Africa from 800 A.D. to the present. Includes the introduction of Islam to West Africa; the internal factors which transformed local societies, states, and empires; the impact of European trade and imperialism; forms of resistance to Colonial rule; the rise of nationalism and the struggle for independence; and the challenges of the post-independence period.
- HIST 230:** *WOMEN IN THE UNITED STATES* **3 s.h.**
 Surveys American women's history from Colonial times to the present. Examines both the history of the female experience in the United States and the relationship between women and the rest of society. Includes the power of the domestic sphere, suffragism, female reform, and modern feminism.
- HIST 254:** *HISTORY OF LATIN AMERICA: COLONIAL PERIOD* **3 s.h.**
 Surveys the development of Colonial Latin America from its discovery to 1825. Analyzes economic, social, political, and cultural development. Fall, alternate years.
- HIST 255:** *HISTORY OF LATIN AMERICA: NATIONAL PERIOD* **3 s.h.**
 Emphasizes the history of the Latin American countries since 1825. Analyzes economic, social, political, and cultural development. Fall, alternate years.
- HIST 260:** *NAZISM, HITLER, AND THE HOLOCAUST* **3 s.h.**
 Examines the Nazi Party from its beginnings in 1919, its gestation in the Weimar Republic period, and its supremacy in Germany, from 1933 to the end of World War II. Includes an examination of the social and intellectual background of Nazism. Emphasizes the personalities of the Third Reich leadership. Concludes with an examination of the Holocaust. Spring, annually.
- HIST 275:** *INDIA THROUGH THE AGES* **3 s.h.**
 Examines the historical development of Indian civilization from its early origins to the coming of the Europeans. Emphasizes the classical period, religion, social organizations, and the ancient Hindu and medieval Muslim periods. Spring, alternate years.
- HIST 286:** *HISTORY OF MODERN CHINA AND JAPAN* **3 s.h.**
 Study of the transformation that has taken place in China and Japan in modern times as a result of an external impact as well as forces within Far Eastern societies. Spring, alternate years.
- HIST 298:** *HISTORICAL METHODS* **3 s.h.**
 Introduces the research methods, utilization of historical sources, documentation, and writing skills necessary to complete a significant historical research project. Skills mastered in this course should enable students to improve the quality of all writing and research required in all 300-level courses offered in the History Department. Focuses on American, European, or non-Western civilization, depending upon the instructor. Permission of instructor required. Required for all history majors. Spring, annually.

- HIST 303: HISTORY OF MEXICO** 3 s.h.
A history of Mexico from pre-Columbian times to the present. Emphasizes the rise and fall of advanced ancient civilizations, European conquest and colonialism, the struggle for independence, Mexico's social revolution, the rise of nationalism, and the current drive for modernization in the so-called "Third World." No prerequisite. Spring, alternate years.
- HIST 305: HISTORY OF SOUTHERN AFRICA SINCE 1800** 3 s.h.
Examines the growth of the European population of the Cape Colony; Shaka's Zulu empire; the Great Trek of the Boers; the creation of new states; the discovery of gold and diamonds; the creation of modern South Africa, Lesotho, Swaziland, and Botswana; the rise and fall of apartheid; and regional conflicts.
- HIST 310: AFRICA, SLAVERY, AND THE SLAVE TRADE** 3 s.h.
Explores the history of slavery within Africa from its origins to its end. Draws on recent historical and anthropological research to investigate such topics as links between internal slavery and the external slave trades; processes of enslavement; the positions and roles of slaves in African societies; the ideology of slavery; slave trading networks and markets within Africa; the effects of slavery on specific African societies; resistance to slavery; and the long-term consequences of slavery. Fall Semester.
- HIST 315: TOPICS IN HISTORY** 1-3 s.h.
Topical approach to the study of history, permitting students to pursue an in-depth examination of selected problems. Advanced level. On demand.
- HIST 318: ANCIENT GREECE** 3 s.h.
Examines development of ancient Greece from its earliest precursors in Mycenaean civilization, through the growth of the city-states of classical Greece, to its blending with other cultures in the Hellenistic World. Addresses political, social, and cultural developments, historical problems, and the historical narrative. Fall, alternate years.
- HIST 319: ROMAN HISTORY** 3 s.h.
Examines development of Rome from its foundation as a city-state in central Italy in the mid-eighth century B.C. to its conquest of the Mediterranean World as a republic and finally to the end of the Roman Empire in the West in the fifth century A.D. Addresses political, social, and cultural changes and will be historiographic as well as historic in outlook. Spring, alternate years.
- HIST 320: MEDIEVAL HISTORY** 3 s.h.
Surveys European development from 500 to 1300. Alternate falls.
- HIST 330: EUROPE DURING THE RENAISSANCE AND REFORMATION** 3 s.h.
A study of the Renaissance and Reformation emphasizing the important political, social, economic, religious, and cultural forces that emerged during this period of transition and ushered in modern western culture. Emphasizes the evolution of modern states, the rise of individualism, and the development of modern religious ideas and institutions.
- HIST 345: HISTORY OF EUROPE FROM 1815 TO 1924** 3 s.h.
A study of the social, economic, political, religious, and cultural experiences of the European people from the Congress of Vienna to the death of Lenin. On demand.
- HIST 349: THE AMERICAN WEST** 3 s.h.
Study of the Old West of the 19th century and the West as a distinctive region in the 20th century. Emphasizes the continuing relationship to the East and on the geographic, economic, and cultural diversity within the West itself. Pioneers from the East, Native Americas, immigrants from Europe, Mexico, and Asia, farmers, cowboys, and entrepreneurs will all have a place in the course. Romanticized myths of the West will be compared with historical realities. Prerequisite: HIST 120 or consent of the instructor. Fall Semester.
- HIST 350: COLONIAL AMERICA** 3 s.h.
A study of colonial history beginning with the European background of colonization and continuing through the American Revolution. Prerequisite: HIST 120 or consent of instructor.
- HIST 351: UNITED STATES : THE EARLY REPUBLIC** 3 s.h.
A study of the Federalist Era, Jeffersonian and Jacksonian America. Examines the formation of the republic through the federal Constitution, the Jeffersonian revolution, and the age of Jackson. Analyzes the ideas and personalities that shaped the nation. Prerequisite: HIST 120 or consent of instructor.
- HIST 352: CIVIL WAR AND RECONSTRUCTION** 3 s.h.
A basic study of the growth of sectional differences between North and South from 1820 to 1850. Examines the failure of compromise efforts in the 1850s and the causes of secession. The war and the consequences of reconstruction policies to 1877 are traced in light of modern civil rights problems. Fall, alternate years.
- HIST 353: U.S. AGE OF REFORM (1870-1920)** 3 s.h.
A detailed look at the gilded age, populist, and progressive periods in American history. Examines the reform phenomena that characterized the late 19th and early 20th centuries. Emphasizes the motivation, objectives, accomplishments, and failures of the various reform movements. Considers each reform group in the context of a period of rapid social and economic change. Prerequisite: HIST 121 or consent of instructor.
- HIST 357: TUDOR-STUART ENGLAND** 3 s.h.
Examines the significant political, cultural, social, and religious developments in England from the accession of Henry VII to the death of Queen Anne and the transition to the House of Hanover. Spring, alternate years.
- HIST 360: HISTORY OF RELIGION IN THE UNITED STATES** 3 s.h.
A study of American religious history from the colonial period to the present. Examines the histories of individual religious institutions and their interaction within their social and intellectual context, focusing upon the paradox of mainstream American Protestantism within a pluralistic religious culture. On demand.
- HIST 363: HISTORY OF AMERICA LABOR** 3 s.h.
Examines the history of American working men and women from the Colonial period to the present. Explores the growth of the trade union movement and its sociopolitical and economic impact, and the nature of the work performed by labor and the way laboring people have lived. On demand.

Liberal Studies

Liberal Studies is a multidisciplinary degree program administered by the office of the dean in the College of Arts and Sciences, the College of Education and Human Services, and the College of Business. The B.S. in liberal studies is a major program designed to provide (1) a structured program that encourages students to explore a diversity of academic skills and disciplines, (2) a liberal arts program for students who have not decided upon a specific school or major, and (3) an option for students who have a desire to create their own majors. It is not necessary for students who enter the university undecided about a major to continue in liberal studies through graduation. Many students who begin in the liberal studies program develop interests that lead them to declare a specific major. Conversely, some students who have completed the core of a degree program opt for liberal studies when their career goals change.

General Requirements

Admission requirements for the B.S. in liberal studies are the same as those for admission to the university. The degree is based upon the standard eight-semester sequence of courses and requires a minimum of 120 semester hours for graduation.

Academic standards for good standing in the program are the same as the university standards for good standing. To earn the B.S. in liberal studies, the student must complete 72 credits and have a minimum cumulative quality-point average of 2.00 for all course work.

Specific Requirements

Forty-eight credits are general education classes as required by the university constituting courses in specific categories within arts and sciences. In addition to general education classes, liberal studies students complete 33 credits of lower-level (100-200) and 39 credits of upper-level (300 and above) Arts and Sciences courses. Maximum course work in a single discipline is limited to 39 credit hours. All courses must be selected in consultation with an advisor.

Programs Administered Through the College of Arts and Sciences

LIBERAL STUDIES, B.S.,

REQUIREMENTS IN MAJOR 72 credits
A minimum of 48 credits must be earned in the College of Arts and Sciences; a minimum of 39 credits must be at or above the 300 level. No more than 39 credits may be represented in a single discipline.

LIBERAL STUDIES, B.S.,

CONCENTRATION IN EDUCATION 72 credits
Required: ED 110, 121 or 122, 217, 225, 327, 329, and SPED 418; a minimum of 51 credits must be earned in the College of Arts and Sciences; a minimum of 30 credits must be at or above the 300 level. Restricted to seniors.

LIBERAL STUDIES, B.S.,

CONCENTRATION IN ENGLISH 72 credits
Required: One course from ENG 130, 140, 150, 199, 230, 231, 242, 244, 249, 250, or 265; two courses from ENG 221, 222, 225, 226, 227, or 228; two courses from ENG 200, 202, 207, 263, 301, 303, 304, 306, 307, or 356; one course from ENG 227, 228, 230, 231, 331, or 354. The same course may not be used to fulfill two core requirements. English electives: 21 credits at a 300-400 level. Required core courses and upper level English electives must total 39 credits; an additional 33 credits in Arts and Sciences must be earned (18 at the 300-level or above).

LIBERAL STUDIES, B.S.,

CONCENTRATION IN WRITING 72 credits
Required: 24 credits in English writing courses; 15 credits in non-writing English courses (literature, drama, movie studies, folklore, linguistics); 33 additional credits in Arts and Sciences courses, excluding English.

LIBERAL STUDIES, B.S., CONCENTRATION IN

GEOGRAPHY AND SUSTAINABLE PLANNING 72 credits
Required: GEOG 100, 257, 310, GEOG/ES 385, 400, 470, and ES 150. One course from GEOG 250, 252, or 490; one course from GEOG 260, 265, or 310; one course from GEOG/ES 345, 425, 490; 39 additional credits at the 300-level or above.

LIBERAL STUDIES, B.S., CONCENTRATION IN

ATHLETIC TRAINING 76 credits

In collaboration with California University of Pennsylvania, Clarion University offers an array of courses applicable toward a Bachelor of Science in Athletic Training. The program provides general education credits through Clarion and course work in sports medicine and athletic training by means of distance learning from California's campus. In addition, students are required to complete practicums and labs taught by the sports medicine staff at Clarion University. The Bachelor of Science in Athletic Training requires the completion of 120 credits for graduation with the degree being awarded by California University. These credits are in the athletic training concentration and general education. Twenty-five of the athletic training credits are earned through courses taught at Clarion by California through distance education and the remaining credits in athletic training are taught by Clarion University's sports medicine and athletic training staff.

Admission to Athletic Program

Admission to the Athletic Training Education Program is **extremely** competitive and **approximately six** students are selected each year. Applications for the Athletic Training curriculum are accepted during the second semester of the freshman year and screened by the California University Admissions and Academic Standards Committee (AASC). During this semester, the student submits a letter of application to the AASC, which screens, interviews, and selects the students to be admitted. Criteria for selection are: a minimum 3.00 QPA in athletic training courses, a minimum of 100 documented observation hours, an interview with a department faculty member, and the ability to meet the program's technical standards (www.cup.edu/education/hsss).

Athletic Training Requirements

General Education

Students must satisfy the general education credits of California University (see www.cup.edu/ugcatalog/generaleducation).

Professional Education

Professional Education courses for the Athletic Training Program include a collection of Liberal Knowledge and Health and Physical Education courses and foundation courses in Sports Medicine and Athletic Training. The following courses are required for the program:

FIRST SEMESTER

BIOL 258	Anatomy & Physiology I	.....3
ENG 111	Writing II	.....3
SC 113	Public Speaking	.....3
PSY 211	General Psychology	.....3
	Mathematics requirement	.....3
	TOTAL	.....15

SECOND SEMESTER

BIOL 259	Anatomy & Physiology II	.....3
ATE 150	Introduction to Athletic Training	.....3
HPE 111	Health Education	.....2
HPE	Personal Performance	.....1
ENG 130	Literary Experience, or	
ENG 200	Composition and Literature, or	
ENG 307	Business Writing	.....3
CIS 110	Intro to Computer Information Systems, or	
CIS 217	Applications of Microcomputers	.....3
	TOTAL	.....15

THIRD SEMESTER

ATE 204	Athletic Training Clinical Ed. I	.....2
ATE 225	Evaluative Techniques I	.....4
HSC 275	Functional Kinesiology	.....3
HSC 300	Emergency Medical Technician	.....4
	General Education elective	.....3
	TOTAL	.....16

FOURTH SEMESTER

ATE 204	Athletic Training Clinical Ed. I	.....2
ATE 265	Evaluative Techniques II	.....4
HSC 290	Therapeutic Modality and Lab	.....4
SOC 211	Principles of Sociology	.....3
	General Education elective	.....3
	TOTAL	.....16

FIFTH SEMESTER

ATE 305	Athletic Training Clinical Ed. II	.....2
ATE 330	Therapeutic Exercise and Lab	.....4
	Humanities elective	.....3
	Science elective	.....3
	Social/Behavioral Science elective	.....3
	TOTAL	.....14

SIXTH SEMESTER

ATE 305	Athletic Training Clinical Education II	.....2
ATE 315	General Medical Assessment	.....3
HSC 325	Physiology of Exercise	.....3
HPE 334	Food, Fitness, and Weight Management	.....3
FIT 400	Int. Sport Performance Training	.....3
	TOTAL	.....14

SEVENTH SEMESTER

ATE 400	Ortho Evaluations in Sports Medicine	.....1
ATE 405	Athletic Training Clinical Education III	.....2
ATE 440	Pharmacology	.....2
ATE 460	Sports Medicine Research	.....3
	Humanities elective	.....3
	Arts & Sciences elective	.....3
	TOTAL	.....14

EIGHTH SEMESTER

ATE 400	Ortho Evaluations in Sports Medicine	.....1
ATE 405	Athletic Training Clinical Education III	.....2
ATE 425	Administrative Strategies in Athletic Training	.....2
	Arts & Sciences electives	.....10
	TOTAL	.....15

Programs Administered Through the College of Education and Human Services

LIBERAL STUDIES, B.S.,

CONCENTRATION IN LIBRARY SCIENCE 72 credits

The B.S. in liberal studies with a concentration in library science prepares students to work as paraprofessionals and provisional librarians in a variety of settings, including public libraries in Pennsylvania. It introduces students to the exciting worlds of information management and information transfer, in both traditional and emerging venues. The B.S. in liberal studies with a concentration in library science serves as an excellent preparation for studying toward a master's degree in library setting (such as Clarion's American Library Association-accredited MSLS degree), which is the recognized professional credential for the practice of librarianship.

Required: LS 255, 257, 258, 356, 357, 358, 361, and 385. A minimum of 39 credits must be at the 300-level or above.

LIBERAL STUDIES, B.S.,

CONCENTRATION IN SPORTS MANAGEMENT 72 credits

Required: HPE 370, 380, 430, 440, MGMT 320, 430, and COOP 447. One course from ECON 175, 211, or 212. A minimum of 39 credits must be at the 300-level or above. Students enrolled in this concentration are not eligible to receive the Sport Management minor.

LIBERAL STUDIES, B.S.,

CONCENTRATION IN ATHLETIC COACHING 72 credits

Required: HPE 333, 334, 406, 407, 408, 409, 440, and COOP 444. Two courses from HPE 351, 352, or 354. A minimum of 39 credits must be at the 300-level or above.

Library Science

Liberal arts students, regardless of their major, may qualify as provisional librarians under the Pennsylvania Library Code by successfully completing at least 12 library science credits (semester hours).

Making Connections Program

The *Making Connections* Program allows students to enroll concurrently in linked-pairs or three-course-clusters focused on a common theme. Examples of themes from previous years include: "Beliefs, the Brain, and the Body," and "Approaching the Year 2000." Students enrolled in the *Making Connections* Program find it helps them get to know professors better and establish friendships and study groups. The *Making Connections* courses meet graduation requirements in general education applicable to all students no matter what their major. For information, contact the office of the dean, College of Arts and Sciences.

Mass Media Arts, Journalism, and Communication Studies

Department of Mass Media Arts, Journalism, and Communication Studies, Susan Hilton, Ed.D., chair

E-mail address: hilton@clarion.edu

Website: <http://clarion.edu/mmajcs>

Mass Media Arts and Journalism

130 Becker Hall

Telephone: 393-2245

Communication Studies

149 Marwick Boyd Fine Arts Center

Telephone: 393-2284

Professors: Blake, M. Kuehn, S. Kuehn

Associate Professors: Hilton, Lingwall, Marshall, Washington, Yang

Assistant Professors: Adams, Hill-Wagner, McCauliff, Nulph, Obotetukudo, Torres

Instructors: J. Lyle

The wide world of communication and digital media offer many opportunities for students in a variety of exciting and rapidly expanding careers. The Department of Mass Media Arts, Journalism, and Communication Studies offers students a unique blend of broad-based communication and writing skills with the opportunity to concentrate in one of seven specialty areas: advertising, broadcasting, communication studies, corporate communication, film, journalism, and public relations. Students prepare for their specialties through a strong core of required courses that expose them to all major areas and disciplines, communication-law, writing, publishing, videography, research, speech and law. Once inside the concentration, students rely on this broad background as they immerse themselves in their chosen career area. Capstone experiences such as internships provide a transition between the classroom and the professional world.

Expert faculty, outstanding equipment and facilities, and strong curriculum make the Department of Mass Media Arts, Journalism, and Communication Studies one of the stellar programs in the country. Our graduates have found work in major broadcast markets, newspapers, advertising and public relations firms, video production, internal and external corporate communication areas, graphic design and Web publishing, photography, event planning, sales, and non-profit organizations. Students also have been very successful in entering graduate school.

This curriculum takes effect in Fall 2008. Check the Website or the previous catalog for program requirements through the 2007-2008 academic year.

B.S. IN MASS MEDIA ARTS, JOURNALISM, AND COMMUNICATION STUDIES 72 credits

Required: MMAJ 100, CMST 110, MMAJ 101, CMST 113, MMAJ 140, MMAJ 270, MMAJ 271, MMAJ 301 **OR** MMAJ 302, MMAJ 320, MMAJ 422; Choose liberal arts and science

electives, excluding MMAJ (12 credits); choose one course in MMAJ or CMST electives; choose three co-curricular activities from MMAJ 216, 217, 218, 219, 220, 221, 222; CMST 101, 102, 104.

ADVERTISING CONCENTRATION² Complete the 24 credits in the following concentration: MMAJ 314, MMAJ 375, MMAJ 443, MMAJ 444, MMAJ 200-499 Elective, CMST 320, CMST 321, CMST 332; Choose **one** MMAJ Analysis course: MMAJ 324, 331, 339, 424, 425, 426; Choose one of these MMAJ or CMST Elective courses: Coop in MMAJ-CMST (1-3 cr)³, MMAJ 482, CMST 495, Internship (6-12 cr), MMAJ 499, CMST 260, Special Topics (3 cr).

BROADCAST CONCENTRATION² Complete the 24 credits in the following concentration: MMAJ 311, MMAJ 351, MMAJ 353 **OR** MMAJ 354, MMAJ 442, MMAJ 200-499 Elective, CMST 213 **OR** CMST 214 **OR** CMST/THE 251 **OR** CMST 216, CMST 220, CMST 311; Choose one MMAJ Analysis course: MMAJ 324, 331, 339, 424, 425, 426; Choose one of these MMAJ or CMST Elective courses: Coop in MMAJ-CMST (1-3 cr)³, MMAJ 482, CMST 495, Internship (6-12 cr), MMAJ 499, CMST 260, Special Topics (3 cr).

COMMUNICATION STUDIES CONCENTRATION² Complete the 24 credits in the following concentration: CMST 200, CMST 217, CMST 213, **OR** CMST 215, CMST 216, CMST 320, **OR** CMST 321, CMST 420, CMST 421, CMST 200-499.

Choose one CMST Analysis course: CMST 210, 281, 322, 331, 333, 410, 421, 430; Choose one of these MMAJ or CMST Elective courses: Coop in MMAJ-CMST (1-3 cr)³, MMAJ 482, CMST 495, Internship (6-12 cr), MMAJ 499, CMST 260, Special Topics (3 cr).

CORPORATE COMMUNICATION CONCENTRATION² Complete the 24 credits in the following concentration: CMST 214, CMST 217, CMST 300, CMST 311, CMST 312, CMST/MGT 360, CMST 411, CMST:200-499. Choose one CMST Analysis course: CMST 210, 281, 322, 331, 333, 410, 421, 430; Choose one of these MMAJ or CMST Elective courses: Coop in MMAJ-CMST (1-3 cr)³, MMAJ 482, CMST 495, Internship (6-12 cr), MMAJ 499, CMST 260, Special Topics (3 cr).

FILM CONCENTRATION² Complete the 24 credits in the following concentration: MMAJ 208, CMST 321, **OR** CMST 322, **OR** CMST 332, MMAJ 351, MMAJ 370, MMAJ:200-499, MMAJ 354, **OR** MMAJ 355, **OR** MMAJ 357, **OR** MMAJ 372, MMAJ 445, MMAJ 455, MMAJ 476; Choose one of these MMAJ or CMST Elective courses: Coop in MMAJ-CMST (1-3 cr)³, MMAJ 482, CMST 495, Internship (6-12 cr), MMAJ 499, CMST 260, Special Topics (3 cr).

JOURNALISM CONCENTRATION² Complete the 24 credits in the following concentration: MMAJ 313, MMAJ 340, MMAJ 341, MMAJ 344, MMAJ 441, MMAJ 200-499 Elective, CMST 217, CMST 200 **OR** CMST 320 **OR** CMST 321 **OR** CMST 420; Choose one MMAJ Analysis course: MMAJ 324, 331, 339, 424, 425, 426; Choose one of these MMAJ or CMST Elective courses: Coop in MMAJ-CMST (1-3 cr)³, MMAJ 482, CMST 495, Internship (6-12 cr), MMAJ 499, CMST 260, Special Topics (3 cr).

PUBLIC RELATIONS CONCENTRATION² Complete the 24 credits in the following concentration: MMAJ 312, MMAJ 340, MMAJ 417, MMAJ 443, MMAJ 200-499, CMST 214, CMST 300 **OR** CMST 312, CMST 332; Choose one MMAJ Analysis course: MMAJ 324, 331, 339, 424, 425, 426; Choose one of these MMAJ or CMST Elective courses: Coop in MMAJ-CMST (1-3 cr)³, MMAJ 482, CMST 495, Internship (6-12 cr), MMAJ 499, CMST 260, Special Topics (3 cr).

Notes:

1. Mass Media Arts, Journalism, and Communication Studies majors must attain the minimum grade requirement of "C" or better in each 300-400 level upper division Mass Media Arts, Journalism, and Communication Studies or graduate-level Mass Media Arts and Journalism course effective Spring 2003.
2. Students should select a concentration based on career goals.
3. COOP 313, 413: Mass Media Arts and Journalism
COOP 314, 414: Advertising
COOP 315, 415: Journalism
COOP 316, 416: Public Relations
COOP 317, 417: Radio
COOP 318, 418: Television
COOP 383, 483: Speech/Communication Studies
4. Co-curricular Activities:
45 hours in a semester of active participation in a campus or professional media organization or activity as determined by the department faculty.
MMAJ 216: Newspaper
MMAJ 217: Magazine
MMAJ 218: Radio
MMAJ 219: Television
MMAJ 220: Public Relations
MMAJ 221: Advertising
MMAJ 222: Production
CMST 101: Debate (0-3 cr.)
CMST 102: Public Speaking Events (0-3 cr.)
CMST 104: CS Leadership Activities (0-3 cr.)

Mass Media Arts and Journalism Courses

- MMAJ 100: INTRODUCTION TO MASS MEDIA** **3 s.h.**
Systematic study of mass media and their support industries. Includes historical and critical perspectives of legal, ethical, and social issues surrounding the influence of the mass media on audiences, characteristics and functions of the mass media, career options, employment trends, and competencies required of a mass media professionals.
- MMAJ 101: MESSAGE DESIGN** **3 s.h.**
Investigates elements of effective communication, including the dimensions of sensory perception, meaning, environment, attitude, and technology. Requires students to apply theoretical concepts to practical problems. Each semester.
- MMAJ 140: WRITING FOR MEDIA** **3 s.h.**
Develops fundamental skills in writing and/or visualizing for a variety of media forms. Emphasizes print and broadcast newswriting, advertising copywriting, and public relations writing. Prerequisite: ENG 111 or consent of instructor. Each semester.
- MMAJ 208: INTRODUCTION TO FILM** **3 s.h.**
Designed to help the student become literate in the language of film. It will introduce terminology, history, theory and technology of film. The student will take a critical look at the cinema, analyze the theory and techniques used by directors and writers, and critique a variety of works in a number of film genres. No prerequisites.
- MMAJ 216: NEWSPAPER Co-CURRICULAR** **3 s.h.**
Provides students with experience in the workings of a weekly student newspaper. Students will participate in various aspects of a newspaper operation, including newsgathering, newswriting, editing, proofreading, photography, layout, advertising and distribution.
- MMAJ 217: MAGAZINE Co-CURRICULAR** **3 s.h.**
Provides students with experience in the production of an annual literary magazine. Students will be involved in all aspects of managing the production of an annual magazine, including writing, editing, photography, graphic design, layout, developing ad revenue, ad design, and distribution.
- MMAJ 218: RADIO Co-CURRICULAR** **3 s.h.**
Provides students with experience in the operations of an FM radio station. Students will complete disc jockey (DJ) training, and will then participate in the various aspects of station operation, including being on the air; operating the board; gathering, writing and reporting news and sports coverage; traffic; production; music direction; and all other elements of radio station operation.
- MMAJ 219: BROADCAST Co-CURRICULAR** **3 s.h.**
Provides students with experience in the operation of a television station. Students will be involved in all aspects of the operation of the station, including camera operation, directing, producing, lighting, set design, audio and technical direction, editing, sports and news reporting, remote transmission, and all other aspects of the operation of the student television station.
- MMAJ 220: PUBLIC RELATIONS Co-CURRICULAR** **3 s.h.**
Allows students who seek careers in public relations to work in the public relations area of the university's media organizations, including WCUC-FM, WCUB-TV, and the magazines.
- MMAJ 221: ADVERTISING Co-CURRICULAR** **3 s.h.**
Allows students who seek careers in advertising to work in the public relations area of the university's media organizations, including WCUC-FM, WCUB-TV, *The Clarion Call*, and the magazines.
- MMAJ 222: PRODUCTION Co-CURRICULAR** **3 s.h.**
Allows students who seek careers in video or film production to gain experience in production work through the activities of WCUC-FM, WCUB-TV, and the production work of the department or of the university.
- MMAJ 270: TEMPORAL MEDIA** **3 s.h.**
Provides initial instruction on communicating via motion and passage of time. Includes the syntax of motion and production techniques in video and animation. Prerequisites: MMAJ 101, 140. Each semester.
- MMAJ 271: PUBLICATION DESIGN** **3 s.h.**
Teaches principles of visual communication in print and electronic publications. Students gain design and production skills through extensive application of these principles to a wide variety of publications. Prerequisites: MMAJ 101, 140. Each semester.

NOTE: Mass media arts and journalism majors must attain the minimum grade requirement of C or better in 300-400-level mass media arts and journalism courses.

- MMAJ 301: MEDIA PRODUCTION PLANNING 3 s.h.**
Covers planning for productions in mediums such as television, Web design, and multimedia. Includes preparing budgets and timetables, establishing workteams, and meeting client expectations. Students develop preliminary production design for actual prospective clients. Prerequisite: MMAJ 270. Each semester.
- MMAJ 302: FILM PRODUCTION PLANNING 3 s.h.**
This course is designed to give the student practice instruction in the process of film production. All aspects of film production are covered from pre-production to post-production, including location scouting, casting sessions, and on-location staging. Special emphasis is placed on roles and responsibilities of personnel. Prerequisite: MMAJ 270.
- MMAJ 311: BROADCASTING PRINCIPLES AND PRACTICES 3 s.h.**
Overview of the broadcasting industry, including history, technical aspects, station and network organization, sales, ratings, programming, and social and ethical influences. A foundation course for radio-TV career preparation, related fields of communication, and the development of knowledgeable consumers of broadcast media. No prerequisites.
- MMAJ 312: PUBLIC RELATIONS PRINCIPLES AND PRACTICES 3 s.h.**
Provides fundamental instruction in public relations practices, including program planning and evaluation, working with the media, writing for public relations, and coordinating special events and functions. Explores the structure and process of public relations in business, institutions, and American society through readings and discussion. Note: Undergraduate students completing MMAJ 312 may enroll in MMAJ 551.
- MMAJ 313: JOURNALISM PRINCIPLES AND PRACTICES 3 s.h.**
Examines the history and theory of the practice of journalism paying particular attention to First Amendment issues, the language of the media, changing conditions of information, ethics, and closely examining the role and organizations of a democratic press. Prerequisite: MMAJ 100.
- MMAJ 314: MEDIA ADVERTISING PRINCIPLES AND PRACTICES 3 s.h.**
Introduces students to media strategies, creative development, and budgeting of advertising plans for international/national, regional, major-market media, and local media. Includes a review of basic concepts and ethics in advertising. No prerequisite.
- MMAJ 320: COMMUNICATION RESEARCH 3 s.h.**
Introduces students to quantitative research principles guiding mass communication professionals working in areas such as broadcasting, public relations, advertising, and journalism. Topics include audience measurement principles, polling research, survey construction and analysis, focus group research, mass media content analysis, and statistical analysis. Calculator required. Prerequisites: MMAJ 100 and 101.
- MMAJ 324: NEW MASS MEDIA TECHNOLOGIES AND PROFESSIONS 3 s.h.**
Introduces students to new mass media technologies that are changing the role of mass communication professionals working in broadcasting, public relations, advertising, and journalism. Topics include evolving mass media implementations of the Internet to reach audiences; evolving copyright issues and their impact on the mass media; discussion of new World Wide Web technologies such as animation formats, streaming media, and digital video production; new digital technologies and formats for broadcasting, and new multimedia technologies. Developing careers and challenges to older professions will be discussed in the context of mass media industry trends. Prerequisite: MMAJ 100.
- MMAJ 331: MEDIA ETHICS AND RESPONSIBILITIES 3 s.h.**
Prepares future professional communicators to make informed media decisions. Provides a historical, legal, cultural, and philosophical context for judgment of continuing and emerging issues in mass media fields, and creates an experimental frame through discussion, simulation, and modeling. No prerequisites.
- MMAJ 339: GLOBAL MASS COMMUNICATION 3 s.h.**
Enables students to effectively interact with the new culturally diverse audience and workforce in American business and industry. Covers the latest innovatively designed resources on cultural diversity, global mass communication competencies, and positive attitudes. Includes imaginative conceptualization techniques of designing mass media messages suited to the new realities of cultural diversity.
- MMAJ 340: NEWSWRITING 3 s.h.**
Explores the principles and practices of evaluating, gathering, and writing the fundamental news story and news feature. Includes preparation of copy for publication, interviewing, and laboratory experience. No prerequisites.
- MMAJ 341: PUBLICATIONS EDITING 3 s.h.**
Provides fundamental instruction in editing skills, copy editing, headline writing, typography, photographs, copy control, and layout. Examines the role and responsibilities of the editor. Prerequisite: MMAJ 271.
- MMAJ 344: INVESTIGATIVE JOURNALISM 3 s.h.**
Focuses on the skill and techniques used to gather in-depth information for investigative reporting. Students will learn interviewing, research, and organizational skills. In addition, the legalities and practicalities of information access will be covered. All of these skills will culminate in the production of an investigative journalism project spanning both written and recorded media. Prerequisites: MMAJ 301 and 340.
- MMAJ 351: VIDEO PRODUCTION 3 s.h.**
Provides students with training in television production and experience in the application of communication theory and production techniques. Integrates skills in writing, photography, audio, and graphics in a total production context. Prerequisite: MMAJ 270.
- MMAJ 353: TELEVISION STUDIO PRODUCTION 3 s.h.**
Develops basic skills in studio production techniques including producing, crew positions, lighting, and on-camera talent. Prerequisites: MMAJ 270 and 301.

- MMAJ 354: AUDIO PRODUCTION** **3 s.h.**
Covers theory and advanced techniques of audio production for radio and video, from conception through completion, emphasizing multitrack, non-destructive, and non-linear production. Prerequisites: MMAJ 270 and 301.
- MMAJ 355: CINEMATOGRAPHY** **3 s.h.**
Further develops skills in digital/film production by examining the use of lenses, light meters, advanced lighting techniques, and low-tech special effects. Students produce a number of projects that employ these techniques. The student will be able to provide shooting and lighting support to any kind of production and create a DVD resume reel. Prerequisite: MMAJ 351.
- MMAJ 357: DIGITAL/FILM EDITING** **3 s.h.**
Introduces and researches aspects of digital and film post-production editing. The course includes the aesthetics and techniques of editing, application of editing techniques on Final Cut Pro, the video signal and components, and the role of the editor. Final Cut Pro certification is possible upon successful completion of the course and the Final Cut Pro certification exam. Prerequisite: MMAJ 351.
- MMAJ 370: NARRATIVE STRUCTURE** **3 s.h.**
Examines narrative screenwriting through all components of story and mythic structure and exemplar film scripts. Character development in relation to narrative structures is studied. Substantial writing is realized in the production of a synopsis, treatment and other pieces in preparation of a feature-length film script. Several major script components are also written.
- MMAJ 372: SCREENWRITING** **3 s.h.**
Concentrates on the development, execution and formatting of a narrative short script. Designed in a lecture/workshop format, students produce a polished log line, synopsis, treatment, character profiles, and 20-minute screenplay. The course covers distribution, marketing strategies, and pitching a script. Prerequisite: MMAJ 370.
- MMAJ 375: PHOTOGRAPHY** **3 s.h.**
Provides basic principles of photography and intermediate principles of photojournalism. Study of camera and darkroom techniques including the production of photographs for news, advertising, scientific, and instructional use. Camera required.
- MMAJ 417: PUBLIC RELATIONS CAMPAIGNS** **3 s.h.**
Explores the processes of public relations (PR) research, strategic planning, tactics, and evaluation in creating and managing PR campaigns. The course culminates in a PR campaign in which students create for an actual client. Prerequisite: MMAJ 312.
- MMAJ 422: COMMUNICATION LAW** **3 s.h.**
Introduces students to legal principles guiding mass communication professionals working in areas such as broadcasting, public relations, advertising, and journalism. Includes legal principles related to freedom of the press, libel, privacy, copyright, access to government documents, the rules and regulations of the Federal Communications Commission and the Federal Trade Commission, and the impact of new media technologies on legal principles concerning First Amendment, copyright, privacy, and mass media industry regulations. Prerequisites: MMAJ 100 and 101.
- MMAJ 424: MASS MEDIA CRITICAL ANALYSIS** **3 s.h.**
Explores critical methodologies and analysis of electronic media content and programming, emphasizing aesthetic, historical, social, cultural, and industrial factors affecting audience response. Prerequisite: MMAJ 101.
- MMAJ 425: MASS COMMUNICATION THEORY** **3 s.h.**
Provides survey and evaluation of current theories of mass communication, examining the role and application of each in mass media products, development, and industries. Students explore theories relative to the emergence of the mass press, the effects of mass communication, and media in contemporary society.
- MMAJ 426: TELECOMMUNICATIONS POLICY** **3 s.h.**
Provides a foundation in the U.S. policymaking process in telecommunications (broadcasting, cable, telephony, and the Internet). Examines the impact of technology and social influences on policymaking and the theoretical perspectives that drive policymaking. Prerequisite: MMAJ 100.
- MMAJ 438: MEDIA PROGRAM DESIGN FOR ORGANIZATIONS** **3 s.h.**
Develops skills in devising communication strategies to design and develop an organization's media programs for training purposes. Skill areas include drafting communication objectives, developing plans for using communication media for training, and evaluating communication media used for effectiveness. Emphasizes applying skills to produce communication media for training programs. Prerequisite: MMAJ 320 or permission of instructor.
- MMAJ 441: ADVANCED MEDIA WRITING** **3 s.h.**
Extensive work in research, writing, and marketing of written products for magazines, newspapers, and other publications. Requires selection and acquisition of appropriate photographs and graphics to complement the articles. Prerequisites: MMAJ 140.
- MMAJ 442: NEWS WRITING FOR ELECTRONIC MEDIA** **3 s.h.**
Provides students with advanced instruction and experience in writing and reporting news for radio, television, and World Wide Web media. Includes rewriting wire copy, using actualities, broadcast news interview techniques, broadcast news feature writing, rewriting and reformatting copy for Web media, and investigative reporting and research techniques. Prerequisites: MMAJ 100, 101, and 140.
- MMAJ 443: PROMOTIONAL WRITING** **3 s.h.**
Provides students with advanced instruction and experience in public relations and advertising writing. Prerequisites: MMAJ 100, 101, and 140.
- MMAJ 444: WORLD WIDE WEB PUBLICATION DESIGN** **3 s.h.**
Develops competencies in writing and editing copy for World Wide Web media. Students will learn to structure Web sites, layout copy, use color and text effectively, position images, and deploy sound and video. Students develop skills in editing public relations, advertising, and news-oriented Web sites. Prerequisite: MMAJ 271 or permission of instructor.

- CMST 113: PUBLIC SPEAKING** **3 s.h.**
 Introduces the long tradition of public speaking, examines the role of public speaking in a multicultural world, applies the principles of research, organization, and delivery to preparation and presentation of speeches, presents techniques students can use to combat stage fright, teaches applications of listening and critical thinking skills, and provides coaching for delivering a minimum of three in-class speeches designed for a variety of contexts.
- CMST/THE 155: INTERPRETATION I** **3 s.h.**
 Develops expressive presentational skills through practice in the oral interpretation of literature. Focuses on analyzing an author's meaning, responding to it, communicating that meaning to an audience, and correlating oral interpretation with other arts. Fall, annually.
- CMST 200: INTERPERSONAL COMMUNICATION** **3 s.h.**
 Focuses on the study of interpersonal communication, specifically the investigation of major theories and research in the field and the application of those theories to improving the students' interpersonal skills. Prerequisite: CMST 113 or consent of instructor. Each semester.
- CMST 210: INTRODUCTION TO RHETORICAL THEORY** **3 s.h.**
 Investigates, on a fundamental level, the historical and conceptual development of the major theories of rhetorical discourse. Applies theories from classical to contemporary to analysis of the spoken word. Stresses speech making and criticism of historical and current political rhetoric. Spring, odd-numbered years.
- CMST 213: PERSUASIVE SPEAKING** **3 s.h.**
 Examines the practice and principles of effective public speaking. Includes detailed analysis of the areas of invention, arrangement, style, and delivery, and an introduction to speech criticism as a tool to improve the speaker's own abilities. Prerequisite: CMST 113 or consent of instructor. Each semester.
- CMST 214: BUSINESS AND PROFESSIONAL SPEAKING** **3 s.h.**
 Focuses on how people use speech communication skills in business and professional settings. Surveys modern speech communication theory as well as coping in groups, listening, negotiation, influencing others, instructional communication, and barriers to effective business and professional speaking. Theory and performance based. Students are expected to make several oral presentations. Prerequisite: CMST 113 or consent of instructor. Offered each semester; Spring Semester's designated section must be taken concurrently with MMAJ 405.
- CMST 215: ARGUMENTATION AND DEBATE** **3 s.h.**
 Study of argumentation in the area of academic debate and the legal world. Emphasizes applying theories and techniques of argumentation to developing analytical abilities, reasoning, use of data, and evidence to support arguments. Fall, annually.
- CMST 216: GROUP DISCUSSION** **3 s.h.**
 Expands the students' knowledge of the concepts and theories of group communication. Emphasizes the task, leadership, and interpersonal skills of group participants. Each semester.
- CMST 217: LISTENING** **3 s.h.**
 Explores the process and integral role of listening in business communication from both a theoretical and practical perspective. Identifies different listening skills appropriate for diverse types and purposes of listening. Examines ineffective and effective listening behavior and the consequences of both in everyday interactions from a variety of contexts including personal, professional, and mass mediated.
- CMST 220: BROADCAST PERFORMANCE** **3 s.h.**
 Designed to develop skills needed to effectively communicate in front of the camera. Explore the principles and applications of various performance techniques involved in a video or film production, and provides extensive knowledge and practice in the forms and styles of performance for the camera.
- CMST/THE 251: VOICE AND ARTICULATION** **3 s.h.**
 Helps students improve their speech by the elimination of faulty voice and articulation habits. Gives attention to basic skills, including vocal variety, projection, breath control, tonal production, and articulation. Focuses on both the technical production of speech sounds and the student's ability to communicate.
- CMST 255: ADVANCED DEBATE** **2 s.h.**
 Further experience in competitive debating and in a variety of debating forms. Prerequisite: Consent of instructor. On demand.
- CMST 260: SPECIAL TOPICS COMMUNICATION STUDIES** **1-6 s.h.**
 Focuses on offering special topics reflecting the interest of students. Content varies from semester to semester. Suitable for both majors and non-majors in communication studies and theatre. May be taken for a maximum of nine credits in the major. On demand.
- CMST 281: GREAT WOMEN SPEAKERS** **3 s.h.**
 Examines the speeches, primarily of American women, whose public speaking has had a significant influence on our lives and our culture. Includes the study of speeches and other public communication concerning various social and political issues, movements and causes from 1800 to the present day. Involves analysis and criticism of the content and delivery of speeches. Spring, even-numbered years.
- CMST 300: COMMUNICATION IN ORGANIZATIONS** **3 s.h.**
 Gives insight into traditional and modern concepts of channels of communication in simple and complex organizations, emphasizing informal and formal group dynamics, interpersonal relationships, leadership, communication theory, and creativity. Each semester.
- CMST 311: HUMAN RESOURCES PROBLEM-SOLVING AND DECISION-MAKING** **3 s.h.**
 Trains students to help groups to make decisions. Utilizing techniques such as Nominal Group Technique, Ideawriting, Delphi Method, and Interpretive Structural Modeling, students will help outside clients to make decisions or solve problems.
- CMST 312: COMMUNICATION AND CONFLICT** **3 s.h.**
 Helps students understand, practice, and improve their communication skills when dealing with conflict. Emphasizes development of communication competencies required for successful management and resolution of conflict when dealing with people one-on-one, in small groups, and at work. Fall, annually.

Mathematics

Department of Mathematics,

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Professors: Bhattacharya, Carbone, Freed, Gendler, Madison, Parker

Associate Professors: Beal, Bolinger, McConnell

Assistant Professors: Hipfel, Jackson, Roberts

Mathematics is the science of numbers and the abstract formulation of their operations. Quantitative skills acquired through this study are useful in career fields which include computer science, business, actuarial science, engineering, life and physical sciences, medicine, and research. Actuaries concentrate on the study of actuarial science and usually work for the government, an insurance agency, or a consulting firm. They interpret statistics to determine the likelihood of injury, sickness, death, or loss of property among various population groups and develop insurance rates and plans for these groups.

In addition to a B.S. degree and two minors, the Mathematics Department offers a B.S. in Industrial Mathematics. This program is designed to help students develop a broad background in mathematics while they prepare for professional employment in business, industry, medicine, or government. The university is an official testing site for the Society of Actuaries. A departmental microcomputer lab provides mathematics students with hands-on computer experience. The department is a part of the 3/2 Engineering Program with University of Pittsburgh and Case-Western Reserve University.

Allied activities include a Mathematics Club open to all students, a weekly problem contest (at the end of the semester a prize is awarded to the student who solves the most problems), and Pi Mu Epsilon, a national mathematics honorary.

Entry-level jobs available to graduates in this field include: actuary, computer programmer, engineer, internal revenue agent, military intelligence officer, pension administrator, rate analyst, research mathematician, statistician, systems

analyst, cryptanalyst, and teacher. Among the employers who hire graduates: banks, computer services, consulting firms, corporations, educational institutions, engineering firms, government agencies, insurance companies, manufacturing firms, pharmaceutical companies, and research and development laboratories. Most mathematics graduates go directly into the field where they can earn good salaries, even at entry level. A few go immediately into graduate schools for further study.

High school students who are interested in a mathematics career should take at least five years of mathematics: geometry, trigonometry, two years of algebra, and a third year of algebra or precalculus. It is not necessary to study calculus in high school.

MATHEMATICS, B.S. IN INDUSTRIAL MATHEMATICS64-67 credits
Required: MATH 270, 271, 272, 285, 290, 300, 321, 322, 340, 350, 360, 370, 390, three credits in mathematics electives from 300-level courses and above, and one of MATH 490, 495, COOP 352, 452. Additional required courses include: CPSC 201, ENG 306, PH 258, and 12 credits, of which at least six hours are numbered 300 or above, approved by the chair and advisor. A minimum of C grade in MATH 270, 271, 272 and ENG 111 is required.

MATHEMATICS, B.S. IN MATHEMATICS57 credits
Required: MATH 270, 271, 272, 300, 390, seminar, and 30 credits in mathematics electives from 300-level courses and above, at least 12 credits of which must be at the 400 level. Additional required courses include: CPSC 201, 301, and PH 258. A minimum of C grade in MATH 270, 271, 272 and ENG 111 is required.

MATHEMATICS (COOPERATIVE ENGINEERING PROGRAM) 66 credits
Required: MATH 270, 271, 272, 300, 350, 370, and 18 credits in mathematics or approved engineering electives. In addition to these 39 credits, the following courses are required: PH 258, 268, 259, 269, 351, 352; CHEM 151, 161, 152, 162; CIS 163. See also the Cooperative Engineering Program description on page 84.

SECONDARY EDUCATION, B.S.ED.
 Certification for grades K-12, Mathematics (see under Secondary Education Mathematics), page 173.

MATHEMATICS (MINOR)20 credits
Required: MATH 270 or 260, MATH 271, and 12 credits of 272-level or higher mathematics courses.

MATHEMATICS (MINOR WITH CONCENTRATION IN STATISTICS)20 credits
Required: MATH 221 or 222, 225, 260, 321, 322, and three credits of MATH 271 or higher-level courses.

Mathematics Courses

Placement in mathematics courses is based on the student's mathematics placement test score. The mathematics placement test is administered at each of the orientation sessions or by arrangement with the Mathematics Department. Results are made available before the students register. Students must register for the appropriate level mathematics course as determined by the test score. For more details, students should contact the chair of the Mathematics Department.

MATH/AS 010: PREPARATION FOR COLLEGE MATHEMATICS

3 s.h.

Covers basic arithmetic and geometric principles necessary for the subsequent study of introductory algebra and other more advanced courses requiring a basic mathematics competency. Emphasizes decreasing mathematics anxiety, the development of mathematics text-reading abilities, including the study of vocabulary unique to the mathematics discipline, development of estimation skills, interpretation of data, mental mathematics, and critical thinking. Major learning modalities are written response, calculator use and experimentation, analysis activities, and problem-solving. Credits in this course do not count toward general education or graduation. Credit/No Record only. Fall, annually.

- MATH 260:** *APPLIED CALCULUS* **4 s.h.**
Covers the concepts and applications of differential and integral calculus. Includes derivatives and their applications, integrals and their applications, integration techniques, numerical integration, and the calculus of several variables. *For students in the social, behavioral, and biomedical sciences.* Prerequisite: MATH 171 or satisfactory score on the departmental placement examination. Each semester.
- MATH 270:** *CALCULUS I* **4 s.h.**
Covers elementary analytic geometry, limits, continuity, differentiability, applications, definition of the Riemann integral, and the fundamental theorem of Calculus. *Students in mathematics and sciences and better-prepared students in other disciplines are encouraged to select MATH 270-271.* Prerequisite: C or better in MATH 171 or satisfactory score on the departmental placement examination. Each semester.
- MATH 271:** *CALCULUS II* **4 s.h.**
Reviews limits and definition of the Reimann integral. Covers applications, integration techniques, and topics in analytic geometry. Prerequisite: MATH 270. Each semester.
- MATH 272:** *CALCULUS III* **4 s.h.**
Reviews sequences and series. Analyzes geometry of 3-space, vectors, vector functions, basic properties of limits, continuous and differentiable functions of several variables, and multiple integrals. Prerequisite: MATH 271. Each semester.
- MATH 285:** *MATHEMATICAL MODELING* **3 s.h.**
Develops higher-level problem solving strategies using mathematics to solve real world problems. Applications from diverse disciplines will be represented by mathematical models that will then be solved and analyzed in the context of each problem. Prerequisite: ENG 110 (or equivalent) and one of either MATH 270 or 260, both with grades of C or better. Annually.
- MATH 290:** *CALCULUS WORKSHOP* **1 s.h.**
Overview of the calculus sequence that allows students to examine problems in differential and integral calculus by applying simultaneously the methods learned from the entire sequence. Discusses some new topics and techniques in analysis. Prerequisite: MATH 272. Annually.
- MATH 295:** *PROJECTS IN MATHEMATICS* **1-2 s.h.**
Designed to provide undergraduates with practical experience in the real-world use of mathematics. Students will work on projects that provide exposure to emerging areas of mathematics such as applied mathematics, mathematical modeling, industrial mathematics, computational science, and mathematical programming. A maximum of eight credits in this course may be applied toward graduation. Prerequisite: Permission of instructor. Each semester.
- MATH 300:** *AN INTRODUCTION TO ADVANCED MATHEMATICS* **3 s.h.**
Rigorous approach to the study of the standard methods of mathematical proof applied to topics in the theory of numbers, sets, functions, and analysis. Prerequisite: MATH 271.
- MATH 321:** *INTERMEDIATE APPLIED STATISTICS* **3 s.h.**
Provides an overview of the basic theory and application of mathematical statistics. Emphasizes understanding and applying basic statistical theory. Prerequisite: MATH 271. Fall, annually.
- MATH 322:** *INTERMEDIATE STATISTICS II* **4 s.h.**
Examines in further detail the analysis of variance, factorial experiments, and multiple regression. Prerequisite: MATH 321 (MATH 221/222 with instructor's permission). Spring.
- MATH/CIS 340:** *DISCRETE MATHEMATICAL STRUCTURES* **3 s.h.**
Emphasizes concrete models, sets, relations, functions, combinations, graphs, and trees. Includes computer algorithms and mathematical structures useful in computer science. Designed for students in both mathematics and computer science. Prerequisites: MATH 300 and CIS 163.
- MATH 350:** *ORDINARY DIFFERENTIAL EQUATIONS* **3 s.h.**
Studies first-order differential equations, linear differential equations of higher order, and systems of differential equations. Prerequisite: MATH 272. Spring, annually.
- MATH 357:** *MODERN GEOMETRY* **3 s.h.**
Develops an axiomatic treatment of Euclidean geometry and introduces topics in non-Euclidean geometry. Focuses on the historical work on the parallel postulate. Emphasizes rigorous proof and logical methods. Prerequisite: MATH 300.
- MATH 360, 460:** *NUMERICAL METHODS IN MATHEMATICS I, II* **3 s.h. each**
Examines types of error, calculus of finite differences, numerical evaluation of integrals, algorithms for the solution of algebraic equations, and systems of algebraic equations with applications to selected problems and computer programming of algorithms. Prerequisite: MATH 271. Spring Semester (360); on demand (460).
- MATH 370:** *INTRODUCTION TO LINEAR ALGEBRA* **3 s.h.**
Introduces systems of linear equations, vector spaces, linear transformations, matrices, determinants, eigen vectors, and eigen values. Prerequisite: MATH 271.
- MATH 390:** *JUNIOR SEMINAR IN MATHEMATICS* **1 s.h.**
An introduction to the literature in mathematics and mathematics education. Students will read a collection of articles or chapters of books with topics ranging from history, applications, and creativity, to research in mathematics education and nature of mathematics. Students will write short papers providing their reactions and insights about the materials from each reading assignment. Each student is required to choose a topic for the Senior Seminar. Prerequisite: Six hours of 300-level or higher mathematics courses and the consent of the mathematics department chair. Term and frequency as required.
- MATH 421:** *MATHEMATICAL STATISTICS I* **3 s.h.**
Explores basic concepts of elementary probability, probability in finite spaces, conditional probability, independent trials, sophisticated counting, and probability in relation to random variables. Prerequisites: MATH 272 and MATH 300.
- MATH 422:** *MATHEMATICAL STATISTICS II* **3 s.h.**
Analyzes mathematical expectation, discrete and continuous random variables, probability densities, sampling distributions, point

estimations, interval estimations, tests of hypotheses, regression and correlation, analysis of variation, and moment-generating functions. Prerequisite: MATH 421.

MATH 451, 452: *MODERN ALGEBRA I, II* **3 s.h. each**
Introduces groups, rings, integral domains, and fields. Emphasizes rigorous proof and logical methods. Prerequisite: MATH 300. Fall and spring, respectively.

MATH 454: *THEORY OF NUMBERS* **3 s.h.**
Examines factorization, congruence, quadratic reciprocity, number theoretic functions, diophantine equations, and continued fractions. Prerequisite: MATH 300.

MATH 459: *INTRODUCTION TO COMPLEX VARIABLES* **3 s.h.**
Covers the complex plane, analytic functions, poles, residues, and their applications, including the fundamental theorem of algebra. Prerequisites: MATH 272 and 300.

MATH 471, 472: *INTRODUCTION TO REAL ANALYSIS* **3 s.h.**
Covers limits, continuity, differentiability, integrability, and convergence for functions of a real variable and several variables. Prerequisites: MATH 272 and 300.

MATH 473: *ELEMENTARY TOPOLOGY* **3 s.h.**
Explores topological spaces, metric spaces, compactness, and connectedness. Prerequisites: MATH 272 and MATH 300.

MATH 480: *SPECIAL TOPICS* **3 s.h.**
Offers special topics reflecting the interests of the students. The specific topic to be covered each term will be announced in advance. Prerequisites: MATH 272 and permission of the instructor.

MATH 490, 491, 492: *SEMINAR I, II, III* **1 s.h. each**
Individual study under faculty supervision. Prerequisites: 12 hours of 300-level (including MATH 390) or above mathematics courses and written consent of the department chair.

MATH 495: *INDUSTRIAL MATHEMATICS WORKSHOP* **3 s.h.**
Serves as the capstone course for students in the Industrial Mathematics Program. Students work to find solutions to problems originating from business, industry, medicine, and government. Requires written and oral presentations. Prerequisites: Completion of MATH 270, 271, 272 (all with C or better), MATH 300, 12 credit hours of mathematics numbered above MATH 300, and permission of instructor.

MATH 499: *INDEPENDENT STUDY* **1-3 s.h.**
Individual study under faculty supervision. Prerequisites: 12 hours of math numbered 300 or above and written consent of the department chair.

Military Science-ROTC

Army Reserve Officers' Training Program and Minor in Leadership-Military Science Track, LTC Jeffrey Metzger, program director

G21 Becker Hall
Telephone: 393-2527
E-mail address: lfagen@clarion.edu
Website: www.artsci.clarion.edu/rotc

Professor: LTC Jeffrey Metzger
Assistant Professor: ILT Lawrence Fagen

Clarion University, in partnership with the Military Science Department at Indiana University of Pennsylvania (IUP), offers qualified students the opportunity to earn a commission as an officer in the U.S. Army. Students who complete both the Basic Course program and the Advanced Course program receive a minor in Leadership-Military Science Track from Clarion University. Students who complete the Basic Course program (or have validated it), the Advanced Course program, and the **ROTC Leadership Development and Assessment Course** receive a commission as an officer in the U.S. Army. The ROTC program and the minor provide leadership training that students can apply throughout their careers, be they in business, industry, technology, education, the physical sciences, or the humanities.

The ROTC program and the minor are divided into two phases: the Basic Course (freshman and sophomore years) and the Advanced Course (junior and senior years).

Students who enroll in the ROTC program have the following benefits:

- ROTC offers a comprehensive academic program in military leadership and teaches practical skills such as self-defense, adventure training, rappelling, marksmanship, orienteering, and first aid techniques.
- The end-state of completing both the Basic Course ROTC Program (MS 110, MS 112, MS 201, and MS 202) and the Advanced Course ROTC program (MS 301, MS 302, MS 401, and MS 402) results in receiving a minor in leadership-military science track.
- Equipment, ROTC textbooks, and uniforms are issued, without cost, to enrolled students.
- Students enrolled in the Basic Course (MS 110, MS 112, MS 201, and MS 202) may become eligible for full-tuition scholarships and enrollment in the ROTC Advanced Course.
- Students formally enrolled in the Advanced Course (MS 301, MS 302, MS 401, and MS 402) receive a cash stipend (\$300-\$500) each month for 10 months during the academic year and receive \$900 each year for books.

- Students who complete the advanced course and graduate from the university receive commissions as second lieutenants and serve in one of the three army components: Active Army, National Guard, or Army Reserve.

ROTC /Minor in Leadership-Military Science Track Basic Course Program

The first two years of military science (MS 110, 112, 201 and 202) provide a background of the historical role of military forces as well as current national military objectives. In addition, students develop basic leadership skills in problem solving and decision making and learn survival techniques, map reading, self-defense, rappelling, and marksmanship. **Participants of the basic course incur no commitment to enroll in the ROTC Advanced Course**

and incur no obligation for military service. Students may enroll or withdraw from any of the four courses in the ROTC Basic Course under the same provisions and in the same manner as the other academic courses at Clarion. Veterans of armed forces, junior ROTC and civil air patrol graduates, and students who complete the ROTC Basic Camp at Ft. Knox, Ky., may receive exemption from the ROTC Basic Course if approved by the professor of military science but they will not automatically receive academic credit for the course.

Required courses: Four (all courses include concurrent labs)

MS 110: Introduction to Military Science

MS 112: Fundamentals of Military Science

MS 201: Fundamental Tactical Operations and Leadership Techniques

MS 202: National Security and Fundamentals of Military Topography

ROTC Basic Courses

MS 110: INTRODUCTION TO MILITARY SCIENCE

2 s.h.

Surveys the organization of the U.S. Army and the role of the military in today's society, emphasizing the customs and traditions of the army and the fundamentals of leadership. Students study U.S. Army values and ethics and gain an appreciation for land navigation, the army's fitness ethos, and military bearing. Leadership labs reinforce classroom instruction.

MS 112: FUNDAMENTALS OF MILITARY SCIENCE

2 s.h.

Explores progressively, concepts that must be applied by the officer corps of the U.S. Army. Students learn basic soldier skills and leadership techniques while studying the institutional values and procedures that define the professional Army ethic.

MS 201: FUNDAMENTAL TACTICAL OPERATIONS AND LEADERSHIP TECHNIQUES

2 s.h.

Provides practical application of fundamental leadership techniques in preparation for the Advanced Course of military science and future service as an officer in the U.S. Army. Students learn oral and written communication skills and leadership fundamentals in the classroom and practice them at leadership labs. Curriculum and training goal is to enhance supervisory skills that can be applied in management positions in civilian or military careers. Focuses on individual leadership development and small group leadership techniques used to train and motivate teams within larger organizations.

MS 202: NATIONAL SECURITY AND FUNDAMENTALS OF MILITARY TOPOGRAPHY

2 s.h.

Studies military security concepts, policies, and the military decision-making process with emphasis on resources and economic factors. Fundamentals of military topography, including use of military maps to determine topographic features to conduct land navigation and to perform terrain analysis, are covered.

ROTC Advanced Course Program

(requires ROTC Basic Course validation)

To validate the ROTC Basic Course, a student must meet one of the following criteria:

- Complete MS 110, 112, 201, and 202
- Have served previously on active duty in the armed forces and received an honorable discharge
- Currently serve in the National Guard or Reserve and have completed basic training
- Have completed three or four continuous years of an accredited Junior ROTC or Civil Air Patrol program
- Complete the ROTC Leader's Training Course during the summer between their sophomore and junior years.

This option makes the ROTC program available to students with no previous military experience.

Qualified students complete the ROTC Advanced Course as they fulfill the requirements for their undergraduate degree

from Clarion University. Enrollment occurs in the Fall of the junior year and, in addition to attending physical fitness training three times a week, students attend one seminar and one lab per week at the Clarion Campus. Students who pursue graduate degrees at Clarion can also apply for the program as long as the graduate program is at least four semesters long. Students who complete the ROTC program can earn a commission as a second lieutenant and receive placement in one of 17 professional officer specialties in the U.S. Army, including military intelligence, military police, signal, medical service, and the corps of engineers. To learn more about the program, go to the Clarion Army ROTC Website at www.artsci.clarion.edu/rotc.

Four military science courses taken over two years (MSLC 301, 302, 401, and 402) plus attendance at the ROTC Leadership Development and Assessment Course comprise the ROTC Advanced Course and lead to a commission as

an officer in the U.S. Army. To be eligible to enroll in the Advanced Course, a student must validate the ROTC Basic Course and meet these criteria: be a citizen of the United States, be physically fit and pass a physical examination, be an enrolled academic junior with at least a 2.0 QPA, be not less than 17 years of age but less than 30 by the anticipated graduation date, and be accepted by the professor of military science.

Required courses: Five (4 include concurrent labs)

MS 301: Leadership and Modern Learning

MS 302: Study of Advanced Leadership Planning and Execution of Modern Combat Operations

MS 401: Management of the Military Complex

MS 402: Seminar in Military Management and Analysis

Summer: ROTC Leadership Development and Assessment Course (LDAC) five weeks in summer

ROTC Advanced Courses

MS 301: LEADERSHIP AND MODERN LEARNING

3 s.h.

Classroom instruction and case studies build leadership competencies and military skills in preparation for future responsibilities as army officers. Students learn the principles of war, decision-making processes, planning models, risk assessment, the roles and actions of leaders, and organizational communications. Students may not enroll in this course until they have validated the ROTC Basic Course and have been accepted by the professor of military science. By the end of the course, students must agree in writing to complete the ROTC Advanced Course, graduate on time, and accept a commission as an officer. (3 semester hours plus weekly lab)

MS 302: STUDY OF ADVANCED PLANNING AND EXECUTION OF MODERN COMBAT OPERATIONS

3 s.h.

Classroom instruction and case studies build upon the leadership competencies and military skills attained in MLSC 301 in preparation for future responsibilities as an officer leading small units. Cadets study planning and execution of small unit operations, individual and team development, and the army as a professional career. Prerequisite: MS 301. (3 semester hours plus weekly lab)

MS 401: MANAGEMENT OF THE MILITARY COMPLEX

3 s.h.

Begins the transition from cadet to lieutenant. Cadets study the army staff organization, functions, and processes, as well as counseling responsibilities and methods. Cadets learn how officers recognize and foster an ethical command climate and meet moral obligations as they complete military requirements. Prerequisites: MS 301 and 302. (3 semester hours plus weekly lab)

MS 402: SEMINAR IN MILITARY MANAGEMENT AND ANALYSIS

3 s.h.

Prepares cadets to accept a commission as an officer and begin service in the army. Cadets study the legal aspects of decision-making and leadership, the organization of the National Command Authority, and the organization of army units from tactical to strategic level. The final block of instruction prepares cadets to report to their new duty stations and assume duty as a platoon leader. Prerequisites: MS 301, 302, and 401, in that order. (3 semester hours plus weekly lab)

LEADERSHIP LABORATORY (concurrent with class meetings)

Students participate in a practical application of the leadership principles, individual techniques, and small unit tactics they studied in the classroom. Concurrently scheduled in conjunction with all military science courses, the leadership laboratory offers practical challenges, both physical and mental, and develops teamwork, camaraderie, and leadership.

ROTC LEADER'S TRAINING COURSE (28 days in length during the summer)

Students who did not complete or validate the ROTC Basic Course but who desire to enroll in the Advanced Course may apply to attend the ROTC Leader's Training Course (LTC) at Fort Knox, Ky. The LTC compresses the concepts normally taught during the Basic Course and makes the student eligible to compete for an ROTC scholarship. Cadets receive \$700 for attending, as well as lodging, subsistence, uniforms, medical care, and reimbursement for travel. Call 814-393-2527 for more information.

ROTC LEADERSHIP DEVELOPMENT AND ASSESSMENT COURSE (33 days in length during the summer)

Advanced Course cadets must complete ROTC Leadership Development and Assessment Course (LDAC) at Fort Lewis, Wash., before they graduate and receive a commission as an army officer. Cadets normally attend LDAC during the summer between their junior and senior years. LDAC familiarizes cadets with the basic branches of the army and affords the opportunity to practice the concepts they learned during the preceding academic year. Cadets receive \$700 for attending, as well as lodging, subsistence, uniforms, medical care, and reimbursement for travel.

Program Benefits

ROTC offers a comprehensive academic program in military leadership, adventure training, rappelling, marksmanship, land navigation, and first aid techniques. The Military Science Department provides equipment, ROTC textbooks, and uniforms without cost to enrolled students. Students enrolled in the Advanced Course receive a cash stipend (\$300-\$500 each month) for 10 months during the academic year and receive \$900 each year for books. Students who complete the Advanced Course and graduate from the university receive commissions as second lieutenants in the active army, national guard, or army reserve.

Scholarships

All students, to include those who have completed the ROTC Leader's Training Course and graduate students, may apply for one- to four-year scholarships through ROTC. To be fully eligible, applicants must meet these criteria: 2.5 QPA, full-time student, U.S. citizen, physically qualified, and administratively qualified. ROTC scholarships provide these benefits for each year the scholarship is in effect: full tuition, \$900 for books, and \$300-\$500 per month for 10 months of the school year. Call 814-393-2527 for application instructions.

Modern Languages and Cultures

Department of Modern Languages and Cultures,
Vincent Spina, Ph.D., chair

207A Davis Hall

Telephone: 393-2296

E-mail address: vspina@clarion.edu

Website: www.wartsci.clarion.edu/modern-lang

Associate Professors: E. Donato, Spina, terHorst

Assistant Professors: Shao, K. O'Donnell

Students who want to enhance their marketability upon graduation should learn a foreign language and become familiar with other world cultures. The study of languages and the development of cross-cultural understanding transform students into more enlightened, culturally sensitive citizens who can better perform in the global community and the world marketplace. To ensure Clarion University graduates are prepared for today's competitive job market, the Department of Modern Languages and Cultures offers the following courses and programs:

- B.A. in French or Spanish
- Minor in French, German, and Spanish
- B.S. in French or Spanish Education for students who intend to teach
- Russian language classes offered via distance education in partnership with Slippery Rock University
- Courses that fulfill foreign language, general education, or values flag requirements

We recommend students opt for a double major or a minor, combining two languages, or a language with other fields, such as business, communication, fine arts, the sciences, and the humanities. Recent graduates of the program have found employment as teachers throughout the nation. Others have gone to graduate school, or are pursuing careers with international corporations, the government, the military, or the foreign service.

Unique features of the program include:

- Competent and dedicated faculty—well-trained professionals who are near-native speakers of the language they teach, or have studied and lived extensively in countries where it is spoken. All are highly dedicated teachers who are on the cutting edge of foreign language pedagogy, and whose research interests are relevant to, and enhance their teaching.
- Low student-faculty ratio allows faculty to be accessible to students and to give them individual attention.
- Language center offers students the opportunity to practice their aural/oral skills, and to have access to computer-enhanced and Internet-based activities. An extensive video library is available to students, either as support to courses, or for personal enrichment.
- Overseas travel and study abroad programs for one summer, one semester, or an academic year are available for students of French, German, or Spanish.



- Language clubs provide many special social and cultural events, including films, conversation and game nights, guest speakers, and field trips.
- National language honorary society, Alpha Mu Gamma, initiates outstanding language students each year.

FRENCH, B.A.42 credits

Required: FR 251, 252 (or 250*), 265, 341, 342 and six additional credits from courses numbered above 252. In addition to these 30 credits of French, ENG 262; and nine additional credits in French, geography, and history, and/or ENG 457 and 458, and/or other courses by advisement are required.

SPANISH, B.A.42 credits

Required: SPAN 251, 252 (or 250*), 265, 360, and six additional credits from courses numbered above 252. In addition to these 30 credits of Spanish, ENG 262 and 12 additional credits in Iberian and/or Latin American geography and history, and/or ENG 457 and 458 and/or other courses by advisement are required.

SECONDARY EDUCATION, B.S.ED.

Certification for grades K-12, French (see under Secondary Education French), page 173.

Certification for grades K-12, Spanish (see under Secondary Education Spanish), page 173.

FRENCH, GERMAN, OR SPANISH, MINOR21 credits

Required in either French, German, or Spanish: Credits to be divided among nine required credits, nine credits of 200-level courses, and three credits of 300-level courses.

FILM STUDIES, MINOR18 credits

Offering students an opportunity to study film from various points of view ranging from the aesthetic approach to an investigation of film's philosophical or sociological content. Gives students the opportunity to study film critically and to have a hands-on experience in film making.

**As a general policy, students who have received credit for a 151- or 251-level course in French, German, or Spanish are not advised to take the respective 150- or 250-level courses. If students in this situation do decide to take these courses, however, they may receive only three credits for them, i.e., the three credits they would normally receive for a 152- or 252-level course.*

See statement on Study Abroad-International Education, page 23.

- FR 340:** *FRENCH FILM* **3 s.h.**
 Surveys major French films with English subtitles, and provides an introduction to trends of French cinema. Emphasizes cultural differences between Francophone and Anglo-American cultures as revealed through film. Lectures in English; assignments in French. Prerequisite: FR 252 or permission of instructor.
- FR 341:** *SURVEY OF FRENCH LITERATURE FROM THE MIDDLE AGES TO THE 17TH CENTURY* **3 s.h.**
 Survey and discussion of the main trends of French thought and literary expression from the Middle Ages to the 17th Century. Emphasizes the emergence and evolution of literary genres. Prerequisite: FR 250 or 252 or permission of instructor. Fall, odd-numbered years.
- FR 342:** *SURVEY OF FRENCH LITERATURE FROM THE 18TH CENTURY TO THE PRESENT* **3 s.h.**
 Survey and discussion of the main trends of French thought and literary expression from the Age of Enlightenment to postmodernity. Emphasizes the concepts of experimentation with and subversion of the established literary genres. Prerequisite: FR 250 or 252 or permission of instructor. Spring, even-numbered years.
- FR 353:** *DEVELOPMENT OF FRENCH DRAMA* **3 s.h.**
 Examines development of French drama from the Middle Ages to the 20th century. Course conducted in French. Prerequisite: FR 252 or permission of instructor.
- FR 354:** *DEVELOPMENT OF THE FRENCH NOVEL* **3 s.h.**
 Study of the French novel, with selections from major works in the genre. Course conducted in French. Required for French and French education majors. Prerequisite: FR 252 or permission of instructor.
- FR 356:** *DEVELOPMENT OF FRENCH POETRY* **3 s.h.**
 Study of French poetry from the Middle Ages to modern times. Introduces poetic form, from the ballad to free verse. Course conducted in French. Prerequisite: FR 252 or permission of instructor.
- FR 358:** *FRENCH THINKERS* **3 s.h.**
 Study of major French thinkers from the Middle Ages to the 20th century. Course conducted in French. Prerequisite: FR 252 or permission of instructor.
- FR 360:** *FRENCH CANADIAN WRITERS* **3 s.h.**
 Study of the major trends in French Canadian theatre, prose, and poetry. Course conducted in French. Prerequisite: FR 252 or permission of instructor.
- FR 361:** *BLACK WRITERS IN FRENCH LITERATURE* **3 s.h.**
 Study of the major trends in Francophone African literature. Includes selections from among the works of Jacques Roumain, Sembene Ousmane, Amadou Kourouma, Francis Bebey, Ferdinand Oyono, Leopold Sedar Senghor, Aimé Césaire, Leo Damas, Bernard Dadié, and others. Lectures conducted in English; assignments in French for French majors or minors, in English for other students. Prerequisite: FR 252 or permission of instructor. Spring, annually.
- FR 451:** *SUPERVISED READINGS IN FRENCH LITERATURE* **3 s.h.**
 Selected readings determined in relation to the needs and interests of the individual student. Prerequisite: FR 252 or permission of instructor.

**As a general policy, students who have received credit for a 151- or 251-level course in French, German, or Spanish are not advised to take the respective 150- or 250- courses. If students in this situation do decide to take these courses, however, they may receive only three credits for them, i.e., the three credits they would normally receive for a 152- or 252-level course.*

German Courses

In addition to courses listed below, students of German have an opportunity to study for a summer, a term, or an entire year in Germany and/or Austria. An opportunity to participate in a program of paid and unpaid internships in Germany and Switzerland is available for qualified students.

- GER 101:** *SPECIAL TOPICS: THE EUROPEAN MIND* **3 s.h.**
 Experts on individual European countries examine historical and contemporary developments on the European intellectual scene with regard to their relevance for the present American student generation. The special subject is announced at pre-registration. Open to all students, and may be taken up to three times for credit, provided that different topics are covered. Conducted in English. No prerequisite.
- GER 103:** *GERMAN CIVILIZATION AND CULTURE* **3 s.h.**
 Introduces the geography, history, government, literature, and arts of German-speaking countries (Germany, Switzerland and Austria). Emphasizes comparison of the cultures and values of German societies to those of Anglo-American society. Conducted in English. No prerequisite.
- GER 109:** *GERMAN LITERATURE IN TRANSLATION* **3 s.h.**
 Examines representative German literary works, emphasizing the characters and ideas that have influenced both German literature and the literature of other countries. Conducted in English. No prerequisite.
- GER 140:** *GERMAN FILM* **3 s.h.**
 Surveys major German films with English subtitles. Through film, students learn about cultural and social changes in 20th-century German-speaking countries and become aware of differences between German and Anglo-American cultures. Conducted in English. No prerequisite.
- GER 150:** *INTENSIVE ELEMENTARY GERMAN** **6 s.h.**
 Equivalent to GER 151 and GER 152.
- GER 151:** *ELEMENTARY GERMAN I (GERMAN I)* **3 s.h.**
 Introduces the German language, emphasizing all language skills—listening, speaking, reading, and writing. Fall, annually.

- GER 152:** *ELEMENTARY GERMAN II (GERMAN II)* **3 s.h.**
Continuation of GER 151. Prerequisite: GER 151 or equivalent. Spring, annually.
- GER 250:** *INTENSIVE INTERMEDIATE GERMAN** **6 s.h.**
Equivalent to GER 251 and 252 combined. Prerequisite: GER 150 or 152, or equivalent.
- GER 251:** *INTERMEDIATE GERMAN I (GERMAN III)* **3 s.h.**
Continuation of GER 152, with greater emphasis on reading and writing. Prerequisite: GER 150 or 152, or equivalent. Fall, annually.
- GER 252:** *INTERMEDIATE GERMAN II (GERMAN IV)* **3 s.h.**
Continuation of GER 251. Prerequisite: GER 251 or equivalent. Spring, annually.
- GER 254:** *COMMERCIAL GERMAN* **3 s.h.**
A study of the language needed to conduct common business transactions and discuss financial and technological matters in German. Requires writing of business letters and reports in German. Emphasizes cultural differences between German and American business practices. Prerequisite: GER 250 or 252, or equivalent.
- GER 255:** *GERMAN CIVILIZATION I* **3 s.h.**
Introduces German society, enlightened by glimpses at Germany's rich history. A study of German geography, politics, family life, immigration, art, education, music, literature, and media helps students define and understand the multiple aspects of German identity. Conducted in German. Prerequisite: GER 250 or 252, or equivalent.
- GER 256:** *GERMAN CIVILIZATION II* **3 s.h.**
A complement to German 255, with greater emphasis on Germany's past. Prerequisite: GER 250 or 252, or equivalent.
- GER 257:** *GERMAN IMMERSION* **3 s.h.**
Offered in Germany, the course introduces students to German culture, including aspects of everyday life in Germany, and facilitates understanding of Germany's history and civilization through study of important monuments and urban design. Prerequisite: GER 252, or permission of instructor.
- GER 260:** *THE GERMAN SHORT STORY* **3 s.h.**
Study of German short stories from the turn of the 19th century to the present. All readings, discussions, and assignments in German. Prerequisite: GER 250 or 252, or equivalent.
- GER 265:** *INTERMEDIATE GERMAN CONVERSATION* **3 s.h.**
Practice creative language use in conversation to develop oral proficiency. May be substituted for GER 252 with permission of instructor. Prerequisite: GER 251 or equivalent.
- GER 307:** *GERMAN CONVERSATION AND COMPOSITION I* **3 s.h.**
Develops students' abilities in listening, speaking, and writing German. The course emphasizes a variety of issues relating to modern Germany. Prerequisite: GER 250 or 252.
- GER 308:** *GERMAN CONVERSATION AND COMPOSITION II* **3 s.h.**
Continuation of German 307. Prerequisite: GER 307, or permission of instructor.
- GER 270:** *INTRODUCTION TO GERMAN PHONETICS AND PRONUNCIATION* **3 s.h.**
Introduces the German phonetic system, including the study of phonemes, intonation, stress, and rhythm. Intensive aural/oral training through phonetic dictation with transcription in the International Phonetic Alphabet and practice in diction. Introduces corrective phonetics. Prerequisite: GER 250 or 252, or equivalent.
- GER 340:** *GERMAN FILM* **3 s.h.**
Surveys major German films with English subtitles. Through film, students learn about cultural and social changes in 20th-century German-speaking countries and become aware of differences between German and Anglo-American cultures. Lectures in English; assignments in German. Prerequisite: GER 250 or 252, or equivalent.
- GER 341:** *SURVEY OF GERMAN LITERATURE FROM THE MIDDLE AGES TO THE 18TH CENTURY* **3 s.h.**
Survey and discussion of the main trends of German thought and literary expression from the Middle Ages through the Classical period. The course emphasizes the emergence and evolution of literary genres. Prerequisite: GER 250 or 252.
- GER 342:** *SURVEY OF GERMAN LITERATURE FROM THE 19TH CENTURY TO THE PRESENT* **3 s.h.**
Survey and discussion of the main trends of German thought and literary expression from the German Romanticism to Postmodernity. The course emphasizes the concepts of experimentation with and subversion of the established literary genres. Prerequisite: GER 250 or 252.
- GER 353:** *MODERN GERMAN DRAMA* **3 s.h.**
German drama from the middle of the 19th century to the present, covering representative writers of the realist, naturalist, and expressionist movements, as well as selected contemporary writers. Prerequisite: GER 250 or 252 or permission of instructor.
- GER 355:** *GERMAN ROMANTICISM* **3 s.h.**
Study of German Romantic literature and philosophy, with consideration of their influences on American Romanticism. Prerequisite: GER 250 or 252 or permission of instructor.
- GER 358:** *CLASSICAL GERMAN LITERATURE* **3 s.h.**
Study of major authors and representative works from the golden age of German literature. Prerequisite: GER 250 or 252 or permission of instructor.
- GER 451:** *SUPERVISED READINGS IN GERMAN LITERATURE* **3 s.h.**
Selected readings determined by the needs and interests of the individual student. Prerequisite: GER 250 or 252 or permission of instructor.

*As a general policy, students who have received credit for a 151- or 251-level course in French, German, or Spanish are not advised to take the respective 150- or 250-level courses. If students in this situation do decide to take these courses, however, they may receive only three credits for them, i.e., the three credits they would normally receive for a 152- or 252-level course.

Spanish Courses

In addition to the courses listed below, students of Spanish have an opportunity to study for a summer, a term, or an entire academic year in Spain and/or Mexico.

- SPAN 101: SPECIAL TOPICS: THE EUROPEAN MIND** **3 s.h.**
 Experts on individual countries cover historical and contemporary developments on the European intellectual scene with regard to their relevance for the present American student generation. The special subject is announced at pre-registration. Open to all students, and may be taken up to three times for credit, provided that different topics are offered. Course conducted in English. No prerequisite.
- SPAN 103: HISPANIC CIVILIZATION AND CULTURE** **3 s.h.**
 Taught in English. Provides students with a basic knowledge of Hispanic culture, history and civilization. Emphasizes comparing the cultures and values of Hispanic societies among themselves as well as to those of Anglo-American society. No prerequisite.
- SPAN 109: SPANISH LITERATURE IN TRANSLATION** **3 s.h.**
 A study of representative Hispanic literary works emphasizing themes relevant to all cultures. Conducted in English. No knowledge of Spanish required.
- SPAN 140: HISPANIC FILM** **3 s.h.**
 This course, taught in English, will examine major Spanish and Latin American films with English subtitles. It offers a special and important perspective to approach the contemporary history and culture of Hispanic countries. Students are encouraged to develop an awareness of differences between Hispanic and Anglo-American cultures. Lectures and assignments in English. No prerequisite.
- SPAN 150: INTENSIVE ELEMENTARY SPANISH*** **6 s.h.**
 Equivalent to SPAN 151 and 152 combined. Fall annually.
- SPAN 151: ELEMENTARY SPANISH (SPANISH I)** **3 s.h.**
 Introduces Spanish language, emphasizing all language skills: listening, speaking, reading, and writing. Each Semester.
- SPAN 152: ELEMENTARY SPANISH II (SPANISH II)** **3 s.h.**
 Continuation of SPAN I. Prerequisite: SPAN 151 or equivalent.
- SPAN 153: ELEMENTARY SPANISH CONVERSATION** **3 s.h.**
 Conversational practice emphasizing communication skills. Designed for those students who want to increase their oral/aural proficiency. May be taken concurrently with SPAN 251.
- SPAN 250: INTENSIVE INTERMEDIATE SPANISH**** **6 s.h.**
 Equivalent to SPAN 251 and 252 combined. Prerequisite: SPAN 150 or SPAN 152, or equivalent. Spring annually.
- SPAN 251: SPANISH III (INTERMEDIATE I)** **3 s.h.**
 Systematic review of basic grammar: graded readings, conversation, translation, and composition based on selected topics. Prerequisite: SPAN 150 or 152, or equivalent. Fall, annually.
- SPAN 252: SPANISH IV (INTERMEDIATE II)** **3 s.h.**
 Continuation of SPAN 251. Prerequisite: SPAN 251 or equivalent. Spring, annually.
- SPAN 253: COMMERCIAL SPANISH** **3 s.h.**
 A study of commercial terminology and style, with extensive practice in the writing of business letters of various kinds. Prerequisite: SPAN 250 or 252, or equivalent.
- SPAN 260: THE HISPANIC SHORT STORY** **3 s.h.**
 A study of representative short stories by contemporary Spanish and Latin American writers. All readings and discussions in Spanish. Required for Spanish and Spanish education majors. Prerequisite: Span 250 or 252, or equivalent.
- SPAN 265: INTERMEDIATE SPANISH CONVERSATION** **3 s.h.**
 Practice creative language use in conversation to develop oral proficiency for everyday situations and travel. May be substituted for SPAN 252, with permission of instructor. Required for Spanish and Spanish education majors. Prerequisite: SPAN 251 or equivalent.
- SPAN 270: INTRODUCTION TO SPANISH PHONETICS AND PRONUNCIATION** **3 s.h.**
 Introduces the Spanish phonetic system, including the study of phonemes, intonation, stress, and rhythm. Includes intensive aural/oral training through phonetic dictation with transcription in the International Phonetic Alphabet and practice diction. Introduces corrective phonetics. Recommended for majors. Required for Spanish education majors. Prerequisite: SPAN 252 or equivalent.
- SPAN 280: INTENSIVE ADVANCED SPANISH GRAMMAR AND COMPOSITION** **6 s.h.**
 Equivalent to SPAN 281 and 282 combined. Meets five days a week. Prerequisites: SPAN 250 or 252, or equivalent.
- SPAN 281: ADVANCED SPANISH GRAMMAR AND COMPOSITION I** **3 s.h.**
 Intensive review of Spanish grammar, designed to increase students' proficiency in all language skills with particular attention to college level reading and writing. Readings cover a range of Hispanic culture, including history, current affairs, and literature. Required for Spanish and Spanish education majors. Prerequisites: SPAN 250 or 252 or equivalent.
- SPAN 282: ADVANCED SPANISH GRAMMAR AND COMPOSITION II** **3 s.h.**
 Continuation of SPAN 281. Required for Spanish and Spanish education majors. Prerequisite: SPAN 281, or permission of instructor.

- SPAN 301: HISPANIC CIVILIZATION** 3 s.h.
Introduces Hispanic culture through its geography, art, history, politics, architecture, music and literature. Further develops cultural themes introduced in SPAN 281 and 282. Required for Spanish and Spanish education majors. Prerequisite: SPAN 282 or permission of instructor.
- SPAN 340: HISPANIC FILM** 3 s.h.
This course, taught in English, will examine major Spanish and Latin American films with English subtitles. It offers a special and important perspective to approach the contemporary history and culture of Hispanic countries. Students are encouraged to develop an awareness of differences between Hispanic and Anglo-American cultures. Lectures in English. Assignments in Spanish. Prerequisite: Spanish 250 or 252.
- SPAN 344: TRANSLATION** 3 s.h.
Reviews basic translation theory and introduces advanced translation techniques. Includes Spanish to English translation as well as English to Spanish, and also techniques of oral interpretation. Prerequisite: SPAN 282 or permission of instructor.
- SPAN 352: READINGS IN SPANISH LITERATURE FROM THE MIDDLE AGES TO THE GOLDEN AGE** 3 s.h.
Introduces Spanish literature from the 11th to the 17th centuries. Emphasizes the role of Islam, Judaism, and Christianity in the texts of this period, as well as the development of Spain as the most powerful nation in Europe and the New World during this period. Prerequisite: SPAN 282 or permission of instructor.
- SPAN 353: READINGS IN SPANISH LITERATURE FROM THE GOLDEN AGE TO THE 20th CENTURY** 3 s.h.
Surveys readings from the decline of Spain as a world power to its present position as a democracy. Emphasizes the unique role of the Spanish writer as the conscience and consciousness of the nation, as well as the emergence of women writers. Prerequisite: SPAN 282 or permission of instructor.
- SPAN 354: THE MODERN SPANISH NOVEL** 3 s.h.
Examines the development of the novel in Spain during the 19th and 20th centuries, with discussion of Romanticism, Regionalism, Realism, and Naturalism. Prerequisite: SPAN 282 or permission of instructor.
- SPAN 360: READINGS IN SPANISH AMERICAN LITERATURE FROM THE PRE-COLONIAL TO THE 19th CENTURY** 3 s.h.
Surveys literature of Spanish-America from Pre-Columbian times to Romanticism. Emphasizes the clash between the autochthonous and the invading European culture that ultimately led to the formation of the Latin American character. Prerequisite: SPAN 282 or permission of instructor.
- SPAN 361: SPANISH-AMERICAN LITERATURE FROM MODERNISMO TO THE 20th CENTURY** 3 s.h.
Covers the period from beginnings of Modernismo to the writers of the 20th century, emphasizing both prose and poetry. Prerequisite: SPAN 282 or permission of instructor.
- SPAN 362: 20th-CENTURY SPANISH-AMERICAN NOVEL** 3 s.h.
Examines development of the novel in Latin America from the early 20th century to "The Boom." Prerequisite: SPAN 282 or permission of instructor.
- SPAN 417: SPANISH LANGUAGE AND CULTURAL IMMERSION** 3 s.h.
The course consists of a trip to a Spanish-speaking country for two to five weeks depending on the itinerary planned by the instructor prior to departure (no matter what the length, however it will consist of the usual number of semester hours.) during this period, students will visit places of historical and cultural interest in the country, receive lectures on the historical, cultural, artistic, or literary importance of the sites visited, conducting as much of their daily routine in Spanish as possible. Course offered to graduate students and undergraduates.
- SPAN 461: SUPERVISED READINGS IN HISPANIC LITERATURE** 3 s.h.
Selected readings determined by the needs and interests of the individual student. Prerequisite: SPAN 282 or permission of instructor.
- SPAN 501: SPECIAL TOPICS IN HISPANIC LANGUAGE AND CULTURE** 3 s.h.
In-depth examination of contemporary Hispanic literature and cultural issues including but not limited to such topics as Hispanic women writers, Latino cultures in the United States, and relationships between Hispanic nations and the United States. Course is taught in Spanish.

*As a general policy, students who have received credit for a 151- or 251-level course in French, German, or Spanish are not advised to take the respective 150- or 250-level courses. If students in this situation do decide to take these courses, however, they may receive only three credits for them, i.e., the three credits they would normally receive for a 152- or 252-level course.

**Staffing factors and student needs will decide whether the department will run the intensive or the three credit courses.

General Studies Courses

Courses carrying the GS label are interdisciplinary in nature or are courses which do not fit into any of the usual academic disciplines. They are taken as free electives, as personal development and life skills under general education, or may with departmental approval be substituted for required courses in some majors.

- GS 109: FOREIGN LITERATURE IN TRANSLATION** 3 s.h.
Offered by the Department of Modern Languages and Cultures, listed as FR 109, GER 109, or SPAN 109.
- GS 230: SPECIAL TOPICS : THE EUROPEAN MIND** 3 s.h.
Offered by the Department of Modern Languages and Cultures, listed as FR 101, GER 101, SPAN 101. See course description under appropriate language listings.

Music

Department of Music, Jeffrey A. Wardlaw, D.M.A.,
chair

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Professors: Amrod, Register
Associate Professors: Alviani, Wells
Assistant Professors: Dura, Teske, Toney, Wardlaw

Bachelor of Science in Education in Music Education

See Music Education program description under the
College of Education and Human Services, page 187.

MUSIC, MINOR18-21 credits
Required: MUS 111 and 131, plus 12-15 credits from four
additional categories. Contact the Department of Music for
additional information.



Music Courses

Applied Music

Individual instruction in strings, woodwinds, brass, percussion, piano, voice, organ and guitar. Stresses development of an attitude of artistic maturity on the part of the student and upon artistic performance at all levels of proficiency. All matriculated music majors must elect applied music credits on their major instrument/voice and participate in weekly studio classes each semester in residence. Admission by audition and permission of instructor and department chair. Admission of non-majors is dependent upon availability of the staff. Contact the Department of Music for additional information. Prerequisite: MUS 131 or equivalent background. Course numbers are listed below. 200-, 300-, and 400-levels reserved for music majors only.

MUSA 110/210/310/410	APPLIED MUSIC : VIOLIN	1 s.h.
MUSA 111/211/311/411	APPLIED MUSIC : VIOLA	1 s.h.
MUSA 112/212/312/412	APPLIED MUSIC : CELLO	1 s.h.
MUSA 113/213/313/413	APPLIED MUSIC : DOUBLE BASS	1 s.h.
MUSA 114/214/314/414	APPLIED MUSIC : FLUTE	1 s.h.
MUSA 115/215/315/415	APPLIED MUSIC : OBOE	1 s.h.
MUSA 116/216/316/416	APPLIED MUSIC : CLARINET	1 s.h.
MUSA 117/217/317/417	APPLIED MUSIC : SAXOPHONE	1 s.h.
MUSA 118/218/318/418	APPLIED MUSIC : BASSOON	1 s.h.
MUSA 119/219/319/419	APPLIED MUSIC : TRUMPET	1 s.h.
MUSA 120/220/320/420	APPLIED MUSIC : FRENCH HORN	1 s.h.
MUSA 121/221/321/421	APPLIED MUSIC : EUPHONIUM	1 s.h.
MUSA 122/222/322/422	APPLIED MUSIC : TROMBONE	1 s.h.
MUSA 123/223/323/423	APPLIED MUSIC : TUBA	1 s.h.
MUSA 124/224/324/424	APPLIED MUSIC : PERCUSSION	1 s.h.
MUSA 125/225/325/425	APPLIED MUSIC : PIANO	1 s.h.
MUSA 126/226/326/426	APPLIED MUSIC : VOICE	1 s.h.
MUSA 127/227/327/427	APPLIED MUSIC : ORGAN	1 s.h.
MUSA 128/228/328/428	APPLIED MUSIC : GUITAR	1 s.h.

Offered each semester.

PERFORMING ORGANIZATIONS: MUSA 130-145 May be taken for one credit or for no credit. Credits earned may not be counted among the humanities in general education but may be counted under health and personal performance and under free electives. Open to all students with permission of instructor. 300-level reserved for music majors only.

MUSA 130/330:	CONCERT CHOIR	0-1 s.h.
MUSA 131/331:	MADRIGAL SINGERS	0-1 s.h.
MUSA 132/332/CMST 154:	SHOW CHOIR	0-1 s.h.
MUSA 135/335:	SYMPHONY ORCHESTRA	0-1 s.h.
MUSA 136/336:	MARCHING BAND	0 1 s.h.
MUSA 137/337:	SYMPHONIC BAND	0-1 s.h.

MUSA 138/338:	WIND ENSEMBLE	0-1 s.h.
MUSA 139/339:	JAZZ BAND	0-1 s.h.
MUSA 142/342:	WOODWIND ENSEMBLE	0-1 s.h.
MUSA 143/343:	BRASS ENSEMBLE	0-1 s.h.
MUSA 144/344:	STRING ENSEMBLE	0-1 s.h.
MUSA 145/345:	PERCUSSION ENSEMBLE	0-1 s.h.

See page 12 for organization descriptions.

- MUSA 301: INSTRUMENTAL ENSEMBLE PRACTICUM** **0-1 s.h.**
Provides ensemble performance experience for music majors on secondary instruments. Also provides student conductors the opportunity to develop rehearsal technique through experiences directing an ensemble. Prerequisites: At least two of the following: MUS 241, 242, 243, or 245; and MUS 365. Each semester.
- MUS 110: APPLIED MUSIC SEMINAR** **0 s.h.**
Student recital series satisfies departmental requirement. All music students must elect this course each semester in residence as an extension of their curricular and performance activities. Music majors experience and/or perform music literature of all periods appropriate to their instrument or voice.
- MUS 111: INTRODUCTION TO MUSIC** **3 s.h.**
Introduces the enjoyment and understanding of music. Uses recordings, concerts, and other media. No prerequisite courses or special abilities required. Each semester.
- MUS 112: INTRODUCTION TO AFRICAN–AMERICAN MUSIC** **3 s.h.**
Introduces the enjoyment and understanding of African-American music. Uses audio-visual materials to provide examples of musical styles presented. Non-performance course. No prerequisites. Each semester.
- MUS 113: HISTORY OF ROCK MUSIC** **3 s.h.**
Surveys rock music from its origins to the present. Focuses on musical developments within the genre, as well as historical, sociological, literary and other cultural influences related to this subject. No prerequisite. Fall, annually.
- MUS 114: INTRODUCTION TO WORLD MUSIC** **3 s.h.**
Introduces traditional and contemporary musical styles from Algeria to Zanzibar. Examines the diversity of styles such as Zouk, Soukour, Salsa, Rai and Zydeco to name a few. Introduces the myriad of styles collectively known as “World Music.” No prerequisite. Spring, annually.
- MUS 125: FOUNDATIONS OF MUSICIANSHIP** **3 s.h.**
Basic training for the music major, to precede the study of MUS 126. Rigorous, hands-on course fosters mastering essential skills, including theory fundamentals, sight singing, and ear training. Intended as a prerequisite to the theory sequence. Students may be granted an exemption via a theory exam. Fall, annually.
- MUS 126: MUSIC THEORY I** **2 s.h.**
Introduces fundamental elements of music construction, function, and analysis. Covers scale construction and identification, triad and seventh chord construction and identification, elements of rhythm, functional harmony, and voice leading. Prerequisite: Music majors or by permission. Fall, annually.
- MUS 127: MUSIC THEORY II** **2 s.h.**
Continuation of Music Theory I. Provides students with fundamental knowledge of music construction and analysis. Covers voice leading, non-chord tones, diatonic seventh chords, secondary functions, modulations, phrase/period structure, cadences, and simple forms (binary and ternary). Prerequisite: MUS 126, grade of C or better. Spring, annually.
- MUS 128: AURAL SKILLS I** **1 s.h.**
Aural skills are essential to the success of all students studying music. Covers melodic and harmonic interval recognition, scale recognition and identification, triad recognition and identification, sight singing (melodic and rhythmic), melodic dictation, and rhythmic dictation. Should be taken concurrently with MUS 126. Prerequisite: Music majors or by permission. Fall, annually.
- MUS 129: AURAL SKILLS II** **1 s.h.**
Continuation of Aural Skills I. Covers interval recognition, triad and seventh chord recognition (root position and inversions), sight singing, melodic dictation, harmonic dictation, and error detection. Prerequisite: MUS 128, grade of C or better. Spring, annually.
- MUS 131: FUNDAMENTALS OF MUSIC** **3 s.h.**
Examines the basic vocabulary of music fundamentals: notation, scale structures, key signatures, triads and seventh chords, rhythm and meter, harmony and its functions, intervals, sight-singing and ear training, dynamics, transposition, and practical application by use of a keyboard instrument. No prerequisite. Each semester.
- MUS 160: PIANO CLASS I** **1 s.h.**
Serves two categories of students: the non-piano music major and the non-music major. The purpose for both is the same: teaching piano to beginners in such a manner that they attain an acceptable degree of elementary technical proficiency at the keyboard, a basic knowledge of fundamental scales and chords, and a burgeoning comprehension of the existence and desirability of musicianship. Stresses the development of basic keyboard skills and upon a musical performance on all levels of performance. Limited to 12 students; therefore the possibility exists that a non-music major may be required to reschedule the class so freshman/sophomore music majors can elect the class to meet curriculum requirements. Prerequisite: MUS 131 or equivalent background. Each semester.
- MUS 161: PIANO CLASS II** **1 s.h.**
Helps students develop the ability to perform the skills begun in Piano Class I at a more advanced level. Prerequisite: MUS 160 or permission of instructor. Each semester.

- MUS 182: VOICE CLASS** **1 s.h.**
 Gives students an approach to vocal methods in order to eliminate problems. Teaches students to treat their voices as instruments. Class instruction is offered in voice for the non-voice major. Emphasizes development of the vocal instrument and an attitude of artistic maturity on the part of the students and upon artistic performance at all levels of proficiency. Prerequisite: MUS 131 or equivalent background. Each semester.
- MUS 220: PIANO CLASS III** **1 s.h.**
 Continues developing skills acquired in Piano Class II to prepare music majors for piano competency exam, including sight reading, transposition, technique, and repertoire. Prerequisite: MUS 161. Each semester.
- MUS 221: PIANO SKILLS SEMINAR** **0-1 s.h.**
 Continues group instruction in preparation of the Piano Competency Exam for music majors. Continues development of functional and applied piano skills including piano technique, chording, harmonization, and accompaniment skills. Credits earned do not apply toward graduation. Prerequisite: MUS 220 or MUSA 125. Each semester.
- MUS 224: MUSIC IN THE ELEMENTARY CLASSROOM** **3 s.h.**
9.8 MUS 226: MUSIC THEORY III **2 s.h.**
 Continuation of Theory II. Emphasizes chromaticism and musical forms as developed in the Baroque and Classical periods. Prerequisite: MUS 127, grade of C or better. Fall, annually.
- MUS 227: MUSIC THEORY IV** **2 s.h.**
 Continuation of Theory III. Emphasizes advanced harmony and analysis of musical forms from the 18th, 19th, and 20th centuries. Prerequisite: MUS 226, grade of C or better. Spring, annually.
- MUS 228: AURAL SKILLS III** **1 s.h.**
 Continuation of Aural Skills II. Emphasizes increasingly complex melodies, rhythmic and harmonic progressions. Prerequisite: MUS 129, grade of C or better. Fall, annually.
- MUS 229: AURAL SKILLS IV** **1 s.h.**
 Continuation of Aural Skills III. Emphasizes complex melodies (modal, tonal, and atonal), rhythmic and harmonic material. Study includes 20th-century models of tonal organizations. Prerequisite: MUS 228, grade of C or better. Spring, annually.
- MUS 240: INTRODUCTION TO MUSIC TECHNOLOGY** **3 s.h.**
 Introduces the principles and applications of computers, synthesizers, and music synthesis to new music technologies. Achieves understanding through lectures, reading assignments, and hands-on experience with computers, synthesizers, and appropriate computer software programs. Stresses applications of these new technologies to educational settings. Prerequisite: Satisfactory completion of MUS 160 or equivalent proficiency as verified by the instructor.
- MUS 243: BRASS CLASS** **1 s.h.**
 Introduces playing and teaching brass instruments. Includes techniques of tone production, fingering, and class procedure learned through individual and ensemble playing. Students expected to develop an elementary proficiency on each instrument.
- MUS 244: STRING CLASS** **1 s.h.**
 Introduces playing and teaching the string instruments. Includes techniques of tone production, fingering, and class procedure learned through individual and ensemble playing. Students expected to develop an elementary proficiency on each instrument.
- MUS 245: PERCUSSION CLASS** **1 s.h.**
 Introduces playing and teaching standard percussion instruments. Includes the characteristics of various standard percussion instruments, performance techniques, development of performing ability necessary to develop an elementary proficiency on each instrument.
- MUS 246: GUITAR CLASS** **1 s.h.**
 Introduces the guitar and bass guitar. Divided into three sections. First section introduces folk guitar techniques and styles, covering basic guitar chords, chordal progressions, melodic harmonization and chord chart reading. Second section introduces finger picking styles, such as classical, country, and jazz styles. Final section introduces the bass guitar. Students must provide their own acoustic six-string classic or folk guitar for class. Prerequisite: MUS 131 or permission of the instructor.
- MUS 247: WOODWIND CLASS** **1 s.h.**
 Introduces playing and teaching the woodwind instruments. Includes techniques of tone production, fingering, and class procedure learned through individual and ensemble playing. Students expected to develop an elementary proficiency on each instrument.
- MUS 253: HISTORY OF JAZZ** **3 s.h.**
 Emphasizes the nature and process of jazz and particularly its historical background and development in the United States. Presents logical musical derivatives and developments and demonstrates the important elements that comprise individual jazz styles as they have evolved to the present time.
- MUS 254: SURVEY OF AMERICAN MUSIC** **3 s.h.**
 Provides a complete historical survey of American music from approximately 1620 to the 1980s. Includes musical trends and various styles and musical forms, i.e., religious music, folk music, popular music, and classical music of significant American composers. Presents and analyzes styles and trends in their historical context. Utilizes tapes and live concerts. Prerequisite: MUS 111 or 112, or the permission of the instructor.
- MUS 260: VOCAL PEDAGOGY** **2 s.h.**
 Examines the physical nature and function of the vocal instrument and breathing process and how they relate to the fundamental principles of teaching vocal technique. Applies knowledge to the principles of vocal production and technique through lectures, demonstration, and discussion, as well as group participation in instructing each other. Prerequisite: Minimum of four semesters of voice or Voice Class I and II, or permission of instructor.

- MUS 274: INTRODUCTION TO MUSIC BUSINESS** **3 s.h.**
 Introduces today's multi-faceted music industry. Includes music retailing, instrument sales, the music agent, artist management, contracts, concert promotion, licensing, publishing, copyright, songwriting, unions and guilds, music in production, advertising and promotion, music in broadcasting and film, and career planning and development. Does not count toward humanities requirement. Prerequisite: sophomore standing.
- MUS 289: MUSIC EDUCATION SEMINAR** **0 s.h.**
 Designed for students preparing to enter the upper-division music methods courses. Introduces students to major components of music teaching in elementary and secondary schools. Emphasis is placed on philosophical, psychological, historical, and practical issues affecting the process of music teaching and learning. Spring, annually.
- MUS 310: JUNIOR RECITAL** **0 s.h.**
 Music majors elect this course if they are presenting a recital in their junior year of applied study. Elected concurrently with MUS 110. Prerequisite: Must be enrolled in upper-division applied study and successfully complete an audition. Each semester.
- MUS 333: ELEMENTARY MUSIC METHODS** **2 s.h.**
 Explores the role of music in elementary school; the roles of classroom teachers, the music specialists, and the consultant. Plans, attitudes, and problems in teaching vocal and instrumental music; curriculum development. Evaluation of musical experience and growth in primary, intermediate, and upper elementary grades. Includes music reading as an integral part of the total music program, musical growth and experience in singing, part-singing, listening, instrumental and rhythmic activities. Emphasizes development of ability to use the voice effectively in teaching, and on the thorough familiarity with music series texts, use of keyboard, rhythmic instruments, recordings, and new developments in teaching aids. Introduces the Orff and Kodaly methods. Required observations and supervised teaching experiences arranged each semester. For music majors or minors only. Prerequisites: MUS 127; MUSA 130/330 or 131/331; MUSA 135/335, 136/336, 137/337, 138/338, or 301; MUSA 136/336, and completion of early field experience requirement. Fall, annually.
- MUS 345: MUSIC FROM 1750 TO 1900** **3 s.h.**
 Intensive study of the musical styles of the pre-classical, classical, and romantic periods of western music. Discusses important composers and their literature in relation to artistic, social, political, and economic conditions of their period. Emphasizes analysis and listening. Prerequisite: MUS 127 or by permission. Fall, annually.
- MUS 346: MUSIC FROM ANTIQUITY TO 1750** **2 s.h.**
 Intensive study of the musical styles from the ages of classical Greece and Rome through the Baroque period, including the foundations of plainchant, early polyphony, sacred, and secular music of the 13th to mid-18th centuries. Discusses important composers and their literature in relation to artistic, social, political, and economic conditions of their period. Emphasizes analysis and listening. Prerequisite: MUS 127 or by permission. Spring, annually.
- MUS 347: 20th-CENTURY MUSIC** **3 s.h.**
 Intensive study of the musical styles of the late Romantic Period (1890) through the 20th century. Discusses important composers and their literature in relation to artistic, social, political, and economic conditions of their period. Emphasizes analysis and listening. Prerequisite: MUS 127, 345, or by permission. Fall, annually.
- MUS 349: ART SONG LITERATURE I** **2 s.h.**
 Explores representative song repertoire of the German lied and the English language art song from historical and performance perspectives. Stresses the songs of Schubert, Schumann, Brahms, Wolf, Strauss, Britten, and Rorem. Prerequisites: MUS 345, 347, or permission of the instructor. On demand.
- MUS 350: ART SONG LITERATURE II** **2 s.h.**
 Explores representative song repertoire of French, Italian, Slavic, and Russian composers from historical and performance perspectives. Stresses the songs of Faure, Debussy, Ravel, Poulenc, and Moussorgsky. Prerequisites: MUS 345, 347, or permission of the instructor.
- MUS 351: KEYBOARD LITERATURE** **3 s.h.**
 Surveys keyboard music from the Renaissance to the present. Representative works from each period are selected for careful study and analysis, emphasizing performance practices as well as formal and stylistic elements in the music. Includes the development of various keyboard instruments. Prerequisites: MUS 345, 347, or permission of instructor.
- MUS 352: SYMPHONIC LITERATURE** **3 s.h.**
 Intensive study of orchestral music from the Baroque period to the present, using scores, live performances and recordings with particular reference to performance practices and stylistic analysis. Prerequisites: MUS 345, 347, or permission of instructor.
- MUS 353: CHAMBER MUSIC LITERATURE** **3 s.h.**
 Intensive study of music written for small ensembles from the Renaissance period to the present. Representative works from each period are carefully investigated and analyzed. Performance by members of the class or by faculty groups whenever possible. Prerequisites: MUS 345, 347, or permission of instructor.
- MUS 355: OPERATIC LITERATURE** **3 s.h.**
 Surveys the entire field of operatic music from 1600 to the present, including 17th-century Baroque opera; 18th-century operatic reforms (Gluck and Mozart); opera in the 19th century (Verdi, Wagner, Strauss, and Puccini); 20th-century trends in opera (Stravinsky, Berg, Britten, Menotti, etc.) Prerequisites: MUS 345, 347, or permission of instructor. Offered when faculty is available.
- MUS 356: CHORAL LITERATURE** **3 s.h.**
 Surveys choral music from the 15th century to the present. Emphasizes masses, motets, and madrigals of the Renaissance period; oratorios, cantatas, and passions of the Baroque period; major choral works of Haydn, Mozart, Beethoven, Berlioz, Mendelssohn, Verdi and Brahms; choral works of the 20th century. Prerequisites: MUS 345, 347, or permission of the instructor.

- MUS 357: BAND LITERATURE 3 s.h.**
 Surveys the available published and recorded literature for marching, military and concert bands; symphonic and wind ensembles; and woodwind and brass chamber ensembles. Includes transcriptions and arrangements; major publishers in the field; evaluation of various editions; and also a study of the principal trends of instrumental pedagogy, repertoire, and performance. Prerequisite: MUS 131.
- MUS 360: BASIC CONDUCTING 1 s.h.**
 Develops skilled baton technique and clarity of gesture. Focuses on traditional and modern beat patterns, expressive gestures, cues, and development of left hand. Prerequisite: Music majors or by permission of the instructor. Fall, annually.
- MUS 361: PIANO TEACHING METHODS AND MATERIALS 3 s.h.**
 Surveys modern piano teaching methods and available published teaching materials. Emphasizes the teaching of notation and the development of reading skills; the teaching of keyboard techniques through an understanding of the player's physical mechanism and the coordination of timing and touch; problems of fingering, pedaling, and memorization. Evaluates materials for beginning students; easier teaching pieces by the great composers; anthologies; appropriate music for the intermediate student, leading to a more advanced technique and musicianship and to acquaintance with a wide range of composers and musical styles. Prerequisites: MUS 346 or 131 and permission of the instructor.
- MUS 362: INSTRUMENTAL METHODS 2 s.h.**
 Analyzes principles and procedures of organizing and conducting instrumental classes, bands, and orchestras in the public schools. Includes examination and use of texts, methods, and other materials. For music majors or by permission. Prerequisites: MUS 127; MUSA 130/330 or 131/331; MUSA 135/335, 136/336, 137/337, 138/338, or 301; MUSA 136/336 and completion of early field experience requirement. Spring, annually.
- MUS 363: VOCAL METHODS 2 s.h.**
 Analyzes principles and procedures of organizing and conducting vocal classes and choral ensembles in the public schools. Includes vocal techniques, tone production, proper vowel placement, proper focus on tone, diction, diaphragmatic breathing, and investigation of choral literature. For music majors or by permission. Prerequisites: MUS 127; MUSA 130/330 or 131/331; MUSA 135/335, 136/336, 137/337, 138/338, or 301; MUSA 136/336 and completion of early field experience requirement. Fall, annually.
- MUS 364: COMPOSITION 3 s.h.**
 Examines the nature of the musical idea and of the various possibilities of its subsequent development, including canonic or fugal treatment, motivic development, and variational procedures. Reviews traditional structural plans and contemporary, formal and stylistic trends. Creative assignments emphasize the understanding of past and present compositional styles and techniques, and the gradual development of a personal language. Prerequisites: MUS 127 or permission of instructor. Offered when faculty is available.
- MUS 365: INSTRUMENTAL CONDUCTING 2 s.h.**
 Further develops skilled baton techniques and clarity of gesture. Includes effective rehearsal technique, understanding of performance problems involving tonal balance, tempo, complex rhythmic situations, especially related to intermediate and secondary school instrumental groups. Prerequisite: MUS 360. Fall, annually.
- MUS 366: CHORAL CONDUCTING 2 s.h.**
 Further develops skilled choral conducting techniques and clarity of gesture. Includes effective rehearsal technique, understanding of performance problems involving tonal balance, tempo, complex rhythmic situations, especially related to intermediate and secondary school choral groups. Prerequisite: MUS 360. Spring, annually.
- MUS 368: BAND ARRANGING 3 s.h.**
 Explores instrumentation and scoring problems in marching, military, and concert bands; symphonic wind ensembles; and woodwind and brass chamber ensembles. Emphasizes score layout and notation, copying and multiple reproduction of parts, copyright implications, and knowledge of effective combination of instrumental sounds. Prerequisites: MUS 131 (or equivalent background) and consent of instructor.
- MUS 369: MARCHING BAND TECHNIQUES AND MATERIALS 2 s.h.**
 Examines the marching band, including organization, music materials, care of instruments and uniforms, marching essentials, administration, and contemporary techniques. Prerequisites: MUS 127 or permission of instructor. On demand.
- MUS 370: ORCHESTRATION / ARRANGING 3 s.h.**
 A study of basic orchestration/arranging procedures and principles relative to instrumental and vocal ensembles. Emphasizes music for school use. Prerequisites: MUS 127, 162, 241-245. Spring, annually.
- MUS 374: INTERMEDIATE STUDIES IN MUSIC BUSINESS 3 s.h.**
 Explores special topics in the music industry, including the record industry; advanced issues in broadcasting and film; and career planning and development. Emphasizes individual projects in accordance with student interest. Prerequisite: MUS 274.
- MUS 410: SENIOR RECITAL 0 s.h.**
 The Music Department's Senior Recital series, which satisfies a department requirement. Music majors elect this course if they are preparing for a recital in their senior year of study. Elected concurrently with MUS 110. Prerequisite: Must be enrolled in upper-division applied music study and successfully complete an audition. Each semester.
- MUS 411: SPECIAL TOPICS IN MUSIC 3 s.h.**
 Topics of special interest in the field of music will be offered. Previous subject areas have included Orff—music for children; Kodaly method; and Mozart, the man and his music. Topics will be announced in advance. Offered occasionally.
- MUS 451: ADVANCED CONDUCTING 3 s.h.**
 Analyzes selected works by band, choral, and orchestral literature with particular reference of performance problems involving tonal balance, tempi, complex rhythmic and polymetric situations, vocal intonations and diction. Provides conducting experience with band, choir, and/or madrigal singers, and orchestra in rehearsal. Emphasizes thorough understanding of the musical score and effective rehearsal techniques. Prerequisites: MUS 365, 366, or permission of instructor.

Philosophy Courses

- PHIL 111: LOGIC I – CRITICAL THINKING** **3 s.h.**
 Develops students' skills in analyzing arguments. Examines forms of faulty reasoning and evaluates criteria for the evaluation of arguments. No prerequisite. Annually.
- PHIL 115: PHILOSOPHY AND POP CULTURE** **3 s.h.**
 Introduces students to traditional philosophical topics and problems by reflecting on popular culture and contemporary cultural products such as films, literature, and music. Annually.
- PHIL 211: INTRODUCTION TO PHILOSOPHY** **3 s.h.**
 Introduces students to philosophical topics spanning the history of philosophy. Includes the nature of reality, knowledge, and morality. Students will gain a deeper appreciation of the Socratic maxim: an unexamined life is not worth living. No prerequisite. Annually.
- PHIL 212: ETHICS** **3 s.h.**
 Introduces students to theoretical ethics and the consequences these theories have both personally and for public policy. Examines controversial moral issues. No prerequisite. Annually.
- PHIL 215: RELIGIONS OF THE WORLD** **3 s.h.**
 Examines the philosophies and practices of the religions of the world, emphasizing Judaism, Christianity, Islam, Hinduism, and Buddhism. No prerequisite. Annually.
- PHIL 300: ANCIENT GREEK PHILOSOPHY** **3 s.h.**
 A survey of philosophy during the Ancient Greek period, with a special focus on Plato and Aristotle. No prerequisite. Annually.
- PHIL 306: MODERN PHILOSOPHY** **3 s.h.**
 A survey of philosophy during the 17th and 18th centuries, with a special focus on Continental Rationalism and British Empiricism. No prerequisite. Annually.
- PHIL 307: 19TH CENTURY PHILOSOPHY** **3 s.h.**
 A survey of philosophy during the 19th century, with a special focus on Hegel's German Idealism and the philosophers who reacted against it, such as Marx Nietzsche, and Kierkegaard. No prerequisite. Annually.
- PHIL 308: CONTEMPORARY ETHICAL ISSUES** **3 s.h.**
 Examines and critically evaluates contemporary ethical issues. Topics may include, but are not limited to, biomedical ethics, business ethics, ethics and education, and environmental ethics. No prerequisite. Annually.
- PHIL 309: PHILOSOPHY AND FILM** **3 s.h.**
 Examines and critically evaluates various philosophical themes and problems through the use of film chosen for their philosophical content. No prerequisite. Annually.
- PHIL 311: LOGIC II - SYMBOLIC LOGIC** **3 s.h.**
 A course in formal logic. Consists of a detailed examination of the logical structure, semantics, and proof methods of both sentential and predicate logic, as well as the application of those logics to ordinary English sentences and arguments. No prerequisite. Annually.
- PHIL 312: PHILOSOPHY AND LITERATURE** **3 s.h.**
 Examines and critically evaluates various philosophical themes and problems through the use of literature chosen for its philosophical content. No prerequisite. Annually.
- PHIL 325: SPECIAL TOPICS IN PHILOSOPHY**
 As needed.
- PHIL 352: THEORY OF KNOWLEDGE** **3 s.h.**
 Detailed examination of the concepts of knowledge and of justified belief. Considers and evaluates various theories regarding the nature of these concepts. Investigates the possible sources of knowledge and justified belief. Critically examines various skeptical hypotheses. No prerequisite. Annually.
- PHIL 357: PHILOSOPHY AND FEMINISM** **3 s.h.**
 Examines traditional and contemporary feminist theories and their consequences for social and political philosophy. Explores various aspects of gender and discusses attitudes concerning the nature of human beings. No prerequisite. Every third year.
- PHIL 360: EXISTENTIALISM** **3 s.h.**
 A survey of both the philosophical and more literary writings of the existentialist movement—one of the most influential intellectual currents of the twentieth century. No prerequisite. Annually.
- PHIL 400: INDEPENDENT STUDY IN PHILOSOPHY** **3 s.h.**
 Concentrated exploration of an area of philosophy not covered by existing courses and under the direction of department faculty member. Prior to enrolling, students are required to submit a written proposal outlining their plan of study. Enrollment limited to juniors and seniors with consent of instructor. Maximum number of credits in PHIL 400 is limited to nine.
- PHIL 410: PHILOSOPHY OF MIND** **3 s.h.**
 Detailed investigation into the fundamental nature of mental phenomena. Discusses various theories of mind, e.g., dualism, philosophical behaviorism, philosophical functionalism, etc. Examines issues involving mental content, mental causation, and consciousness. Prerequisite: PHIL 111 or 211 or permission of instructor. Every other year.

Physics

Department of Physics, Sharon Montgomery, Ph.D., chair

135 Peirce Science Center

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Website: www.clarion.edu/departments/phys/index.htm

Associate Professor: Montgomery

Assistant Professors: Foltz, Heard, Pearce

Physics is the science of matter, energy, and motion. It encompasses everything in nature from the behavior of the fundamental building blocks of matter to the large-scale evolution of the universe, galaxies, and black holes. Technological breakthroughs such as superconductivity, nanotechnology, and lasers would not have been possible without physics and physicists who have learned to use their knowledge of basic physical laws in novel and creative ways. At Clarion University, students will gain appreciation for nature by using the scientific method of investigation, and learn to effectively communicate their ideas both orally and in written form.

Our small student-to-faculty ratio allows for greater one-on-one instruction. Current faculty at Clarion University specialize in astrophysics, plasma physics, materials physics, nanotechnology, energy sustainability, and nuclear physics. Graduates from Clarion University pursue a variety of careers or go on to earn advanced degrees in physics, engineering, medicine, or related fields. Some of our students choose to take advantage of our cooperative engineering program with the University of Pittsburgh and Case-Western Reserve University, while others choose to apply their major to our highly successful program in secondary education.

PHYSICS, B.S. 66 credits

Required: PH 258, 268, 259, 269, 351, 352, 353, 354, 371, 372, 461 and four additional physics courses at the 300-level or higher. In addition to these courses in physics, the following are required: MATH 270, 271, 272, 350; CHEM 153, 163; and three other courses selected from the sciences, mathematics, or computer science, not including physics.

SECONDARY EDUCATION, B.S.ED.

Certification for grades K-12, Physics (see under Secondary Education Physics), page 173.

Physics Courses

PH 200: *SOLAR SYSTEM ASTRONOMY*

3 s.h.

Examines the motions of the earth, the moon, and the planets and the effect of these motions on the appearance of the sky, the nature of the sun and the planets, the instruments of the astronomer, and the role astronomy has played in the development of our understanding of the sky. Includes constellation identification through the use of the planetarium. Each Fall.

PH 201: *STELLAR ASTRONOMY*

3 s.h.

Explores human understanding of the nature, formation, and evolution of those celestial objects that lie beyond the solar system. Includes stellar properties and spectra, stellar evolution, special stars and star systems, the Milky Way and other galaxies, cosmology, and cosmogony. Uses the planetarium for constellation study and the development of coordinate systems. Each Spring.

PH 251: *GENERAL PHYSICS I*

4 s.h.

Introductory course for non-physics majors. Emphasizes mechanics, including vectors, kinematics, dynamics, energy, momentum, rotational motion, harmonic motion, mechanical waves; thermal properties of matter, energy conversion, and efficiency. Integrates computer-based laboratory and lecture into three two-hour class periods. Prerequisite: Algebra. Each Fall.

PH 252: *GENERAL PHYSICS II*

4 s.h.

Introductory course for non-physics majors. Emphasizes electromagnetism and light, including electrostatics, circuits, magnetic fields, geometrical and physical optics, optical instruments, atoms and molecules, the atomic nucleus, and radioactivity. Integrates computer-based laboratory and lecture into three two-hour class periods. Prerequisites: Algebra and PH 251 or PH 261. Each Spring.

PHYSICS, MINOR 25 credits

Required: (PH 251, 252) or (PH 258/268, 259/269), MATH 270 and 271, and three additional physics courses at the 300 level or higher. Note that some mathematics and physics courses are prerequisites or co-requisites of some of the upper level classes. The minor in physics is designed for students from other science disciplines like biology, chemistry, mathematics, and industrial mathematics who wish to see the interrelations of matter and energy at a higher level than provided in the introductory courses.

NANOTECHNOLOGY, MINOR 38 credits

Required: (PH 251, 252) or (PH 258, 268, 259, 269), PH 254, 270, and three additional physics courses at the 300 level or higher. These three courses may be selected from the list of approximately twenty courses appearing on the minor's checksheet. The minor in nanotechnology is designed for students from all disciplines in science and mathematics who wish to see the interrelations of matter and energy at a higher level than provided in the introductory courses. The minor in nanotechnology allows students to perform interdisciplinary research on the biological, chemical, environmental, and mathematical aspects of nanoscience.

SUSTAINABILITY: SCIENCE AND POLICY, MINOR 19 credits

Required: ENVR/PH 261, ENVR 490, one credit of undergraduate research, six credits of science electives focused on the environment. These electives are listed on the minor's checksheet. Sustainability is society's ability to meet the needs of the present without compromising future generations' ability to meet their own needs. This interdisciplinary minor focused on sustainability is designed to give both science and non-science students the opportunity to study complex environmental concerns and to synthesize the analytical skills of scientific disciplines with the policy skills necessary to solve real-world environmental problems.

PHYSICS, B.S, ASTROPHYSICS CONCENTRATION 72 credits

Required: PH 258, 268, 259, 269, 301, 302, 351, 353, 354, 355, 356, 371, 461 and one course at the 300-level or higher. In addition to these courses in physics, the following are required: MATH 270, 271, 272, 350; CHEM 153, 163, 154, 164; ES 150, 200, 201. This concentration is designed for physics students who are interested in applying the underlying principles of physics to the planets, stars, and galaxies. It is appropriate for all physics majors and strongly recommended for students planning to attend graduate school in either astronomy or astrophysics.

The cooperative engineering programs in various fields of engineering, other than chemical and petroleum engineering, are also administered by the Physics Department, page 84 and below.

- PH 254:** *EXCURSIONS IN NANOTECHNOLOGY* **3 s.h.**
 Introductory course for science and mathematics majors. Discusses current and developing sub-micron range technologies. Includes an exposition of the physical laws governing matter-energy interactions at a microscopic level and their consequences and applications to nanotechnology in areas such as mechanosynthesis, molecular sorting, assembly, and manufacture, nanomechanical computation systems, and fabrication of nanoscale structural components. Relevant demonstrations and experiments are incorporated. Prerequisites: PH 251 and/or PH 252. Spring, even-numbered years.
- PH 258:** *INTRODUCTORY PHYSICS LECTURE I* **3 s.h.**
 Introductory course for physics majors, pre-engineers, and students in other disciplines seeking an understanding of physics at a rigorous mathematical level. Emphasizes mechanics, including vectors, kinematics, dynamics, energy, momentum, rotational motion, harmonic motion, and waves. PH 268 must be taken concurrently by physics majors and pre-engineers. Prerequisite: MATH 270, which may be taken concurrently. Each Fall.
- PH 268:** *INTRODUCTORY PHYSICS LABORATORY I* **1 s.h.**
 Complements PH 258, and should not be scheduled by students not enrolled in PH 258. Experiments include free-fall, kinematics, momentum and energy conservation, collisions, and wave phenomena. Each Fall.
- PH 259:** *INTRODUCTORY PHYSICS LECTURE II* **3 s.h.**
 Continuation of PH 258, an introductory-level course for physics majors, pre-engineers, and students in other disciplines seeking an understanding of physics at a rigorous mathematical level. Emphasizes electromagnetism and optics, including electrostatics, circuits, magnetic fields, geometrical and physical optics, and optical instruments. PH 269 must be taken concurrently with PH 259 by physics majors and pre-engineers. Prerequisite: PH 258. Each spring.
- PH 261:** *PHYSICS OF ENERGY AND THE ENVIRONMENT* **3 s.h.**
 Establishes both a qualitative and quantitative understanding of the physical laws and processes that underlie energy, resource, and environment issues. Discusses economic and social consequences of individual group decisions related to energy use and environmental impact. May serve as a prerequisite for PH 252 (General Physics II). Prerequisite: Algebra. Each Fall.
- PH 269:** *INTRODUCTORY PHYSICS LABORATORY II* **1 s.h.**
 Complements PH 259, and should not be scheduled by students not enrolled in PH 258. Experiments include electrostatic phenomena, potential, circuits, magnetic forces, refraction, lens properties, atomic spectra, and interference and diffraction. Utilizes computers for data analysis and presentation. Each spring.
- PH 270:** *CONDENSED MATTER LAB PRACTICUM* **18 s.h.**
 An introduction to the processes for constructing sub-micron sized mechanisms. The practicum consists of six emphases: materials, safety and equipment; basic contact lithography, basic etching and deposition techniques; thin film deposition and etching practices; design and mask fabrication; material modification processes; and characterization, packaging, and testing of sub-micron devices. Prerequisites: PH 254, acceptance into the NMT Capstone Semester at Penn State, and must complete a university petition for an independent study course prior to enrollment. Each semester (summer recommended).
- PH 301:** *ASTROPHYSICS I* **3 s.h.**
 Explores the lives of stars using the principles of physics and the tools of astronomy. Topics include celestial mechanics, spectroscopy, stellar atmospheres, stellar interiors, binary stars, nucleosynthesis, energy transport, supernovae, white dwarfs, neutron stars, and black holes. Prerequisites: PH 258; MATH 271, and PH/ES 201. Spring, odd-numbered years.
- PH 302:** *ASTROPHYSICS II* **3 s.h.**
 Explores the objects of the solar system and the universe using the principles of physics and the tools of astronomy. Topics include the nature and formation of the planets and asteroids, the morphology and dynamics of the Milky Way, the nature and evolution of galaxies, the large-scale structure of the universe, and cosmology. Prerequisites: PH 301 and ES/PH 200. Fall, odd-numbered years.
- PH 351:** *MECHANICS: DYNAMICS* **3 s.h.**
 Intermediate course in the mechanics. Uses techniques from vector analysis and differential equations to study mechanics at a level above that of PH 258. Includes Newton's laws of motion, rectilinear motion under the influence of a variable force, oscillatory motion, energy, momentum, motion in three dimensions, central forces, celestial mechanics, systems of particles, and rigid body motion. Prerequisites: PH 252 or 259; MATH 350. Fall, odd-numbered years.
- PH 352:** *ELECTRICITY AND MAGNETISM* **3 s.h.**
 An intermediate-level course in electricity and magnetism. Uses vector algebra extensively in the presentation and development of the basic empirical laws of electromagnetism, and introduces vector calculus as required in the derivation and expression of Maxwell's equations. Includes electrostatics, dielectric media, current and circuits, magnetic fields, magnetic media, Maxwell's equations for vacuum and dielectric media, and electromagnetic waves. Prerequisites: PH 259 (or 252) and MATH 350, which may be taken concurrently. Spring, odd-numbered years.
- PH 353:** *MODERN PHYSICS I* **3 s.h.**
 Intermediate course in modern physics. Includes relativity, kinetic theory of matter, the photon, electron waves, the Bohr model of the hydrogen atom, the Schrodinger wave equation, solution of the Schrodinger wave equation for the hydrogen atom, and atomic physics. Prerequisites: PH 252 or 259; MATH 270 with MATH 271 concurrently. Fall, even-numbered years.
- PH 354:** *OPTICS* **3 s.h.**
 Intermediate course in geometrical, physical, and modern optics. Includes thin lenses, thick lenses, interference, diffraction, polarization, color theory, spectra, lasers, holography, and fiber optics. Prerequisites: PH 252 or 259; MATH 271, with MATH 272 concurrently. Fall, odd-numbered years.
- PH 355:** *MODERN PHYSICS II* **3 s.h.**
 Continuation of Modern Physics I. Includes structure and spectra of molecules, band theory of solids, structure of the nucleus, radioactive decay, nuclear reactions, radiation detectors, and elementary particles. Prerequisites: PH 353, MATH 272. Spring, odd-numbered years.

PHSC 113: CONCEPTUAL 20TH-CENTURY PHYSICS**3 s.h.**

Learn the physics underlying modern technology that you use today. Covers a variety of topics in solid state physics and modern quantum mechanics, including energy levels and bands, light emissions by materials, wave particle duality, and quantum tunneling. No prerequisites and no knowledge of higher-level mathematics or physics required. Operates in an interactive engagement format and incorporate constructivist pedagogy. Perform hands-on experiments, work with computer visualization programs, and brainstorm with your classmates and the instructor to create mental models and explain your observations. On demand.

PHSC/BIOL 116: AERODYNAMICS: THE PHYSICS AND BIOLOGY OF FLIGHT**3 s.h.**

The biomechanics of flight. Students use techniques in physics and evolutionary biology to study how animals fly and swim. Draw upon bats, birds, insects, and even winged seeds, for discussing and testing the basic operating principles of wings. Apply results obtained with a wind tunnel to the locomotion of objects in water. Compare and contrast the flyers and swimmers of nature with those of human invention. The course has a substantial studio laboratory component. On demand.

Political Science

Department of Political Science, Sociology and Philosophy (PSSP), Thomas Rourke, Ph.D., chair

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E-mail address: trourke@clarion.eduWebsite: www.artsci.clarion.edu/philosophy**Professors:** Rourke, Sweet**Associate Professor:** Yenerall

Twenty-four centuries ago, the great philosopher Aristotle argued that politics was “the master science” because it determined how the knowledge obtained in all other disciplines is socially used. In our era of globalization, in which decisions made by the government of one country have increasing political, economic, and social ramifications in others, the validity of Aristotle’s argument is even more glaring. Moreover, the demand for graduates who understand local, national, and global politics is greatly increasing. The political science major provides students with the tools necessary to understand the range of factors shaping the local, national, and global environments in which we live, to think critically and independently concerning pressing political issues, and to come to critically reasoned conclusions as to how we can organize the life we share with our fellow citizens and millions of people around the world.

Clarion University provides an especially favorable environment for the study of political science. An energetic, dedicated, and involved faculty instructs students in small classroom settings which permits a significant degree of faculty-student interaction. A favorable faculty-student ratio also permits considerable student access to faculty for the purposes of consultation, advising, and career planning.

The small size of the program contributes to a sense of camaraderie and guarantees the individual attention students need. The political science faculty offer robust courses spanning a broad range of contemporary political science: American politics, constitutional law, state and local politics, international and comparative politics, political philosophy, politics and film, public administration, and political methodology.

Internships

Political Science majors are encouraged to acquire experience through internships. In pursuit of that end, the Political Science Division offers a variety of internship experiences on a yearly basis. Past internship experiences have included working on political campaigns, field experiences with local and county government institutions, and working with interest groups. In addition, interested students are encouraged to participate in opportunities available in our nation’s capitol through a variety of internships and programs such as those offered by The Washington Center. Students receive academic credit for working as interns.

POLITICAL SCIENCE, B.A. 51 credits

Required: PS 210, 211, 311 or 352, 365 or 366, and 18 credits of political science electives. In addition to these 30 credits in political science, the following courses are required: ECON 211, 212; SOC 211; and 12 credits from history, anthropology, or psychology. Students must demonstrate competence in either a foreign language or computer competency.

POLITICAL SCIENCE, MINOR 18 credits

Required: PS 210, 211, 311 or 352, and nine additional credits to be selected at the 300- or 400-level.

Pre-Professional Studies

Clarion University will grant a baccalaureate degree to a student who has successfully completed the first year of studies at an accredited school of medicine, dentistry, osteopathic medicine, veterinary medicine, podiatric medicine, or optometry, provided the student has met the following requirements:

1. completion of all Clarion University general education requirements for the degree sought;
2. achievement of reasonable proficiency in the student's major as certified by the chair of the department and dean of the college;
3. completion of 90-96 semester hours at Clarion University or in credits accepted in transfer by Clarion University to total 120; and
4. submission of a transcript from the professional school certifying successful completion of the first year.

The student must complete all requirements stated above and must apply for graduation prior to entering the professional school. Students eligible to receive the baccalaureate degree shall be permitted to participate in the Clarion University graduation ceremony.

Pre-Engineering

Since curricular requirements vary among engineering schools and fields of specialization, students planning to transfer to a school of engineering must give careful consideration to the requirements of the institutions to which they intend to apply and, with the exception of those in the Cooperative Engineering Program, q.v., should plan to transfer no later than at the completion of their sophomore year. The following courses should be included in their programs at Clarion: MATH 270, 271, 272, 350, 370; CHEM 151, 152, 161, 162; PH 258/268 and 259/269. Interested students should contact the Physics Department.

Pre-Law Studies

No particular major is required for admission to law school because law schools desire a broad-based undergraduate education that will prepare a student to read, write, and think. However, because law deals with human institutions and values, some courses are recommended. English language and literature courses are indispensable. Students also should be aware of the institutional processes by which laws are made, and thus courses in political science and history are vital. Economics and accounting are helpful as well. Philosophy and computer science courses can help develop essential logic and problem solving skills. For specific course recommendations or further information, interested students are strongly urged to contact the pre-law advisor in the Department of Political Science, Sociology, and Philosophy. Additionally, Clarion University students are also eligible to participate in "3+3" early admission and/or joint degree programs with Widener University School of Law and Duquesne University School of Law.

Pre-Master of Business Administration Option

The College of Arts and Sciences, in cooperation with the College of Business Administration, has prepared a program at the baccalaureate level which provides the basic courses needed for further graduate training for business careers. Undergraduate students intending to complete the pre-M.B.A. option will meet the university's general education and special College of Business Administration requirements, will complete an arts and sciences major of choice, and will be advised to enroll in specific business administration and related core courses. Students completing the suggested courses in business may meet the requirements for a business administration minor. Requests to declare this minor should be filed in the dean's office of the College of Business Administration. However, completion of the suggested undergraduate courses does not guarantee admission to any graduate business program. The courses provide the student with a background suitable for study at the graduate level.

The student, through consultation with the pre-M.B.A. advisor, will first take lower-division skills and general knowledge courses. These courses should help students assess their ability and interest in business subjects and may also provide background preparation for assistantships during their graduate study. The courses, or approved equivalents, include ECON 211, 212; ECON 221 or MATH 221; ECON 222; CIS 217; MATH 232 or 270; ACTG 251, 252; and BSAD 240.

The student will gain admission to the upper-division business courses by (1) maintaining at least a 2.0 QPA both in business courses and overall; (2) earning at least 50 credits, or junior standing; and (3) planning to register for the GMAT during the junior year, taking the examination during the first semester of the senior year. The upper division courses suggested are FIN 370; MGMT 320, 425; and MKTG 360. Achievement of a 2.75 QPA is generally considered to be minimally acceptable for admission to the M.B.A. Program.

The arts and sciences pre-M.B.A. student may not take more than 30 undergraduate credits in the College of Business Administration at Clarion unless formally admitted to Clarion's M.B.A. Program. Changes in the requirements for admission to the upper-division courses, as well as in the list of suggested appropriate courses, may be made upon approval. Students should consult Dr. Soga Ewedemi, the pre-M.B.A. advisor, before registration each term.

Pre-Medicine, Pre-Dentistry, Pre-Chiropractic, and Related Fields

Students who enroll at Clarion intending to enter a professional school for the study of medicine, dentistry, optometry, podiatry, chiropractic, veterinary medicine, or pharmacy, are advised by the Pre-Professional Committee. While students may choose any academic major, they must complete sufficient course work in the sciences,

mathematics, and liberal arts to meet admission requirements established by the professional schools. In addition to academic requirements, many professional schools expect applicants to have engaged in specific kinds of services related to the profession and to be able to demonstrate a knowledge of the profession through these services. Students must also take an admissions examination designed by the professional association to assist admissions committees in evaluating the applicant's preparation for that profession. Such examinations (MCAT, DAT, GRE, etc.) normally are taken near the end of the junior year or the beginning of the senior year at Clarion. Clarion University has entered into a "3+4" affiliation agreement with Lake Erie College of Osteopathic Medicine (LECOM), whereby qualified Clarion students can complete their senior year of college at LECOM while beginning their medical training. Clarion University also has a "3+4" affiliation agreement with Logan College of Chiropractic whereby qualified Clarion students can complete their final year of college while beginning their chiropractic training.

Because the following courses usually are required by professional schools, it is recommended students complete the following work at Clarion:

BIOL	155:	Principles of Biology I
BIOL	165:	Principles of Biology I Laboratory
CHEM	153/163:	General Chemistry I
		OR
CHEM	151/161:	Chemistry Principles I
CHEM	251/262:	Organic Chemistry I
PH	251:	General Physics I
MATH	270:	Calculus I
ENG	111:	Writing II
BIOL	451:	Animal Physiology
CHEM	154/164:	General Chemistry II
		OR
CHEM	152/162:	Chemistry Principles II
CHEM	252/262:	Organic Chemistry II
PH	252:	General Physics II
ENG	200:	Composition and Literature

Students also must complete requirements for an academic major within a specific department. If the student chooses to major in one of the sciences, the above courses may be included in the major.

Requirements for admission to specific professional schools vary slightly; thus, the student must determine such requirements through the Pre-Professional Committee.

The Pre-Professional Committee will assist students in arranging to take admissions examinations and preparing admissions materials. For information, send inquiries to Department of Biology, Chair, Pre-Professional Committee.

To ensure proper advisement, students must contact the Pre-Professional Committee at once.

Pre-Pharmacy

It is possible for students to transfer to a school of pharmacy after the completion of either the freshman or sophomore year. In either case, students should carefully check the requirements of the school they wish to enter.

Students who plan two years of pre-pharmacy study at Clarion are eligible for a "2+3" accelerated pharmacy program with Lake Erie College of Osteopathic Medicine (LECOM), School of Pharmacy. This program is competitive and incoming freshmen students should contact the Admissions Office at Clarion University for details. Interested pre-pharmacy students should also contact the pre-professional committee, Department of Biology, for additional information and assistance.

Psychology

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Professors: Ashcraft, Haynes, Jolley, Mitchell, Nicholls, Potter, Schlueter, Slattery, Vilberg

Associate Professor: Forden

Are you interested in what makes people tick? For example, why do people help when you're standing by a country road, but don't when you're stranded on the interstate? Why do some people eat when they're depressed and others lose their appetites? What do humans and other animals have in common? What is the relationship between your early childhood experiences and your later adult life? Is your behavior determined more by your genes or your experience? If these kinds of questions are of interest to you, psychology may be the major for you. Psychologists study many issues relevant to the human condition. While some focus on how to help people with problems, others work to better select and train employees. While some psychologists are interested in how the brain determines behavior, others study how behavior changes as we age. Psychologists can be found in human service agencies, schools, industry, advertising, hospitals, and research laboratories. Furthermore, a background in psychology can give you a good foundation for careers in business, law, medicine, or religion.

The Psychology Department is a friendly department with dedicated teachers and advisors. It offers three majors and one minor to fit students' varying career interests. The department's faculty will help you prepare for your future career with individual attention, research opportunities, and supervised internships. While you might fall through the cracks at a larger school, you won't at Clarion. This is a great place to learn about psychology and yourself!

PSYCHOLOGY, B.A. 53 credits

Required: PSY 211, 230, 251/252 (each with the grade of C or higher), and either 456 or 470, plus at least 27 credits in psychology electives chosen in consultation with a departmental advisor. Three elective courses at the 400-level (PSY 499 may only be used once) in addition to PSY 456 or 470, are required. At least four courses must be taken from among the following: PSY 240, 260, 352, 354, 355, or 362. In addition to the 41 credits in psychology, students are required to select 12 credits from at least two of the following areas: courses from General Education Liberal Knowledge, Section

II. A, B, and C, excluding CMST 101, 102 and THE 103, 104, 120, 121, 161, 262, 350, 351, 362, 364, and 367. In addition to the above, students are required to pass the final examination in either their 250 or 252 language course.

PSYCHOLOGY, B.S. 48 credits

Required: PSY 211, 230, 251/252 (each with the grade of C or higher), and PSY 260. In addition, at least one from among PSY 352, 452, 453, or 458, at least one from among PSY 321, 331, 464, 467, 471, or 475, at least two from among PSY, 354, 355, 362, 454, or 455, and one of PSY 401, 456, or 470 are required. Additional courses to total 48 credits in Psychology are required to complete the major. At least four courses at the 400 level, chosen in

consultation with a departmental advisor, must be included within the major, as well as one course (in addition to PSY 230, 251, and 252) with a laboratory experience. Students also must complete one college-level mathematics course in addition to the general education mathematics requirement or place into MATH 171 or above.

PSYCHOLOGY, MINOR 18-20 credits
Available to all undergraduate students.

Required: PSY 211 and five other psychology courses (at least nine credits of which must be at the 300- or 400-level). A 2.0 QPA is required in the minor.

Psychology Courses

- PSY 111:** *PSYCHOLOGY OF PERSONAL GROWTH* **3 s.h.**
Emphasizes personal growth, enabling each student to explore self-identity, social relationships, and environmental influences. Explores problems of personality, resolution of conflicts and stress, and the role of emotions in behavior, relationships, and health. No prerequisite. Each semester at Clarion. Annually at Venango.
- PSY 122:** *DRUGS, SOCIETY, AND BEHAVIOR* **3 s.h.**
Reviews common legal and illegal drugs, modes of action, causes of abuse, and available treatments. The focus of the class is to raise students' awareness of these issues, not to provide treatment or training in drug abuse rehabilitation. No prerequisite. Annually.
- PSY 211:** *GENERAL PSYCHOLOGY* **3 s.h.**
Introduces the general subject matter of psychology as a science and its major findings. Emphasizes genetics, development, learning and motivation, emotions, sensation and perception, personality and abnormal adjustment, and other social behavior. No prerequisite. Each semester at both Clarion and Venango Campuses.
- PSY 212:** *BRAIN AND BEHAVIOR* **3 s.h.**
Introduces the relationships between brain and behavior. No prerequisite. As necessary (annually).
- PSY 220:** *HUMAN SEXUALITY* **3 s.h.**
Provides students with an overview of the area of human sexuality. Begins with an explanation of how human sexuality is studied. Includes a discussion of sex roles; the biological division of males and females; the physiology of the human sexual response cycle; and sexual behavior such as homosexuality, sexual coercion, and sexual dysfunctions. Covers health issues such as sexually transmitted diseases, birth control, pregnancy, and childbirth. No prerequisite. Each semester.
- PSY/MGMT 228:** *HUMAN BEHAVIOR IN ORGANIZATIONS* **3 s.h.**
Explores how basic psychological principles can be used to describe, explain, and predict individuals' on-the-job thoughts, feelings, and behaviors. Includes personality, motivation, perception, attitudes, stress, communication, learning, leadership, group behavior, cooperation, decision-making, and research methods. B.S. business administration majors can apply this course to free electives only. No prerequisite. On demand at both the Clarion and Venango Campuses.
- PSY 230:** *INTRODUCTORY STATISTICS FOR THE BEHAVIORAL SCIENCES* **4 s.h.**
Covers basic descriptive and inferential statistical techniques (frequency distributions, measures of variability and central tendency, correlation, regression, z, t). Gives special attention during class and a required laboratory meeting to the use of those techniques in dealing with data in the behavioral sciences and their importance in the research endeavor. Prerequisite: PSY 211. Each semester.
- PSY 240:** *CRITICAL THINKING AND WRITING IN PSYCHOLOGY* **3 s.h.**
Develops cognitive and writing skills linked with success in psychology, a field in which thinking and writing critically enable effective writing and work. Prerequisites: PSY 211; limited to psychology and sociology/psychology majors. Annually.
- PSY 251:** *RESEARCH METHODS FOR THE BEHAVIORAL SCIENCES* **3 s.h.**
Familiarizes students with methods used by psychologists to systematically collect information about the behavior of people and other animals. Experiments are conducted during laboratory meetings, and the appropriate style of writing research reports is emphasized. PSY 211 and 230, with at least a C in PSY 230, are prerequisites; concurrent registration with PSY 230 permitted only with consent of the instructor. Each semester.
- PSY 252:** *RESEARCH METHODS LABORATORY* **1 s.h.**
Experiments are conducted during laboratory meetings and particular attention is given to the appropriate A.P.A. style of writing research reports. Concurrent registration or previous credit for PSY 251 is required. Prerequisites: PSY 211 and at least a C grade in PSY 230. Each semester.
- PSY/GERO/SOC 253:** *INTRODUCTION TO GERONTOLOGY* **3 s.h.**
Provides general introduction to social gerontology. Emphasizes the typical aspects of aging. Reviews current hypotheses and findings concerning aging processes. No prerequisite. Annually.
- PSY 260:** *DEVELOPMENTAL PSYCHOLOGY* **3 s.h.**
Surveys research and theory on human life-span development. Students study social, cognitive, emotional, and physical aspects of development from conception to death. Prerequisite: PSY 211. Each semester at Clarion. Annually at Venango.
- PSY 321:** *PSYCHOLOGY OF ADOLESCENCE* **3 s.h.**
Focuses on the cognitive, emotional, social, and physical changes of adolescence. Through such topics as emerging sexuality, intimacy, identity formation, moral development, and vocational development, students will gain an appreciation for the unique developmental challenges of adolescence. Prerequisites: PSY 211 and 260. Annually.

- PSY 325:** *COMMUNITY PSYCHOLOGY* **3 s.h.**
 Focuses on the connections between the individual and the community in order to develop interventions which will prevent social problems and promote psychological health. Students learn how to apply the community psychology approach to specific social issues. Students become familiar with local and national community-based intervention programs and learn how to conduct assessment and evaluation research on such programs. Prerequisites: PSY 211. Spring, biannually.
- PSY 331:** *CHILD PSYCHOLOGY* **3 s.h.**
 Focuses on cognitive, social, emotional, and physical development from conception through childhood. Prerequisites: PSY 211 and PSY 260. Annually at both Clarion and Venango.
- PSY 340:** *PSYCHOLOGY OF WOMEN* **3 s.h.**
 Introduces students to the roles involved with being men and women, to the ideologies in various feminist theories, and to past and present research in the area of psychology of women. One of the purposes of the course is to demonstrate how bias (especially sexism) can creep into the research process, work situations, and personal lives, and the importance of both male and female perspectives in each of these areas. Prerequisite: PSY 211. Annually.
- PSY 350:** *INDUSTRIAL PSYCHOLOGY* **3 s.h.**
 Focuses on applying theories and methods of scientific psychology to improve the way organizations select, train, motivate, retain, and evaluate employees. No prerequisite, but PSY 211 and 230 are recommended. Annually.
- PSY 352:** *PSYCHOPHARMACOLOGY* **3 s.h.**
 Examines how drugs effect neurotransmitter systems to control behavior. Emphasizes neurochemical and neuroanatomical explanations of pharmacological effects. Examines the major classes of psychoactive drugs with respect to the mechanism of action of the drug and what the drug effect reveals about normal central nervous system functioning. Prerequisite: PSY 211 or consent of instructor. Annually.
- PSY 354:** *ABNORMAL PSYCHOLOGY* **3 s.h.**
 Surveys the principal forms of behavior disorders, emphasizing their etiology, diagnosis, prognosis, and treatment. Prerequisite: PSY 211. Each semester.
- PSY 355:** *SOCIAL PSYCHOLOGY* **3 s.h.**
 The scientific study of social behavior and interpersonal relationships. Prerequisite: PSY 211. Annually.
- PSY 357:** *INTRODUCTION TO PSYCHOLOGICAL TESTING* **3 s.h.**
 Covers the nature and use of tests, including intelligence, personality, aptitude, interests, and achievement. Students prepare behavior objectives, construct tests of items which sample the objectives, administer the tests, and analyze the results. Prerequisite: PSY 211, 230, or the permission of the instructor. On demand.
- PSY 360:** *SPECIAL TOPICS* **3 s.h.**
 Focuses on a single, broad contemporary issue of current interest in psychology and related fields of study. Course content varies from semester to semester. May be taken three times for credit. Prerequisite: PSY 211. On demand.
- PSY 362:** *COGNITIVE PSYCHOLOGY* **3 s.h.**
 Examines information processing, human memory, attention, mental representation, problem solving, and intelligence, to understand the complexities of human cognitive processes. Considers contemporary and historical models of mind to determine their usefulness in understanding the psychological bases of thinking. Prerequisite: PSY 211. Annually.
- PSY 364:** *TECHNIQUES IN INTERVIEWING AND CASEWORK* **3 s.h.**
 Introduces students to basic methods in interviewing and casework. Students will practice entry-level writing and communication skills with peers under close supervision. Prerequisite: Abnormal Psychology or by permission of instructor. Annually.
- PSY 380:** *APPLICATIONS OF BEHAVIORAL PRINCIPLES* **3 s.h.**
 Assists students in applying general behavioral principles to personal change as well as to change that they initiate with clients in entry-level human services positions. Prerequisite: Nine hours in psychology or by permission of instructor. Annually.
- PSY 390:** *RESEARCH IN GENDER PSYCHOLOGY* **3 s.h.**
 Students conduct empirical research on gender as a biological, psychological, and social experience. Through reading, lecture, and discussion they have the opportunity to compare the results of their own investigations to those found in both classic and current studies of gender. Prerequisite: PSY 211 and a course in statistics (PSY 230, MATH 221, or ECON 221). Fall, biannually.
- PSY 393:** *INDEPENDENT STUDY* **3 s.h.**
 Students explore an area of special interest in depth for variable credit under the supervision of a member of the department and with approval of the chairperson. Open to juniors and seniors. Prerequisite: PSY 211.
- PSY 401:** *INDIVIDUAL RESEARCH PROJECT* **3 s.h.**
 Students conduct research under the direction of an individual faculty member in the department. Work culminates in a paper of professional quality. Students present their research in a public forum. Registration requires prior approval of instructor. Taught on an individual instruction basis. Prerequisites: PSY 211, 230, 251, with at least a C grade in PSY 251. As approved.
- PSY 427:** *TESTS AND MEASUREMENT IN PSYCHOLOGY* **4 s.h.**
 Reviews theories of test construction and measurement theory with application to psychological tests and research instruments. Students develop an instrument and provide data to support its reliability and validity. Prerequisite: a course in statistics or by permission of instructor.
- PSY 452:** *PHYSIOLOGICAL PSYCHOLOGY* **4 s.h.**
 Analyzes the physical and biological mechanisms underlying behavior. Includes drugs and behavior, perception, emotions and motivation, sleep, learning and memory, language, psychopathology, etc. Introduces a variety of laboratory methods and techniques via demonstrations. Open to juniors and seniors. Prerequisites: PSY 211, 230, and 251, with at least a C grade in PSY 251. Annually.

- PSY 453:** *HUMAN NEUROPSYCHOLOGY* **3 s.h.**
 Focuses on what is known about the human brain, particularly the neocortex, and how it affects behavior. The course will examine principles of brain function, basics of neurological examination, and the structural-functional relationships emerging from the frontiers of neuroscience—particularly the study of the human neocortex. One section, alternate years.
- PSY 454:** *PERSONALITY* **3 s.h.**
 Surveys several of the major theories of personality development and structure from the classic ideas of Freud and Jung to the current cognitive theories of Bandura. Also covers trait and humanistic approaches. Prerequisite: PSY 211. Annually.
- PSY 455:** *LEARNING AND MEMORY* **4 s.h.**
 Surveys attempts to understand and explain learning and memory. Emphasizes a comparison of current theories and their implications when applied to forms of learning and memory from the simple to the complex. Prerequisites: PSY 211, 230, and 251, with at least a C grade in PSY 251. Annually.
- PSY 456:** *HISTORY AND SYSTEMS OF PSYCHOLOGY* **3 s.h.**
 Examines the foundations of psychological thought and its development from Greek civilization through the reformation and to a period of quasi-maturity in the formal system of the late 19th and early 20th centuries. Prerequisites: PSY 211, 230, and 251. Annually.
- PSY 458:** *SENSATION AND PERCEPTION* **3 s.h.**
 Examines the sensory-perceptual processes with a view to understanding their structure, properties, and role in psychological functioning. Emphasizes physiological processes involved in sensation and their concomitant limitations on the psychological processes of perception. Prerequisite: PSY 211, 230, and 251, with at least a C grade in PSY 251. Every other year.
- PSY 464:** *THEORIES OF COUNSELING* **3 s.h.**
 Introduces the field of counseling and psychotherapy. Surveys the major models in the field, with focus on assumptions and applications in a variety of settings. Covers professional issues, ethics, and current topics. Prerequisites: PSY 211 and 354 (or approval of instructor). Each semester.
- PSY 467:** *GERONTOLOGICAL PSYCHOLOGY* **3 s.h.**
 Study of the changes in human behavior from late adulthood until death. Emphasizes the physical, emotional, intellectual, and social aspects of later life. Prerequisites: PSY 211 and 260. Annually.
- PSY 470:** *SENIOR SEMINAR IN PSYCHOLOGY* **3 s.h.**
 Applies what students have learned about psychological theory and practice to controversial issues, with the intent of developing students' expertise in psychology. Prerequisites: PSY 211, 230, and 251, with at least a C grade in PSY 251. Annually.
- PSY 471:** *INTRODUCTION TO CLINICAL CHILD PSYCHOLOGY* **3 s.h.**
 Introduces clinical work with children. Includes major diagnostic categories and theories of etiology related to clinical problems in children, as well as an overview of evaluation methods and treatment modalities designed specifically for children. Covers professional issues and ethics related to child clinical psychology. Prerequisites: PSY 211 and 260; PSY 331 is recommended; (or approval of instructor). Annually.
- PSY 475:** *HEALTH PSYCHOLOGY* **3 s.h.**
 The area of psychology that is concerned with the interaction between biological, psychological, and social factors that influence people's health and susceptibility to illness. Discusses health promotion and illness prevention from a biopsychosocial perspective. Examines, extensively, the relationship between stress and illness, and discusses medical compliance, the Type A Behavior Pattern, and patient physician interactions. Prerequisite: PSY 211, 230 & 251, with at least a C grade in PSY 251. On demand.
- PSY 499:** *SUPERVISED FIELD EXPERIENCE* **3 s.h.**
 In consultation with the instructor prior to registration, students select a human or community service agency. Requires 10 hours per week. Students observe and experience skills needed in the helping professions. May be repeated once for credit but must be used under free electives the second time. Open to students in education, health, and human service programs. Prerequisites: Junior standing, PSY 211, and at least one of PSY 350, 380, 464, 467. Each semester.

Sociology and Social Work

Department of Political Science, Sociology and
 Philosophy (PSSP), Thomas Rourke, Ph.D., chair

313 Founders Hall

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Website: www.artsci.clarion.edu/philosophy

Professors: Girvan, Reef; **Associate Professor:** Petrisans

Assistant Professor: Fleissner

The field of sociology explores the social and cultural influences on social behavior, the dynamics of social interaction and inequality, social institutions, change, and social problems. The sociology major is beneficial to anyone who is interested in working closely with people and, in this sense, career possibilities are practically unlimited. Types of entry-level jobs available to graduates in sociology include:

community organizations, government agencies, business, recreational facilities, and/or social service agencies. Sociology also teaches skills that are beneficial and related to further studies in law, criminology, teaching, social work, and business.

The sociology program provides students with knowledge in areas such as theory, research methods, inequality, family, social problems, deviance, and conflict resolution. The interdisciplinary nature of our department offers students the unique opportunity of taking social work classes as part of the sociology degree. We offer students a Bachelor of Arts in Sociology, a Bachelor of Arts degree in Sociology/Psychology, as well as minors in sociology and social work. Internships are available, and the department works out articulation agreements to fit students' needs here or abroad. Professional organizations for major include Alpha

Kappa Delta, a national sociology honorary society and the Sociology/Social Work Club.

SOCIOLOGY, B.A.52-53 credits
Required: SOC 211, 310, 450, and 24 additional credits in sociology, up to 12 credits in social work courses can be counted toward the major and chosen in consultation with a departmental advisor. In addition, the following courses are required: ANTH 211, PSY 211, PS 211, either ECON 211 or 212, ECON 221 or MATH 221 or PSY 230, and ECON 222 or MATH 222 or 225. Students must demonstrate competence in either a foreign language or computer science (CIS110, 202, 217, 301).

SOCIOLOGY, MINOR 18-19 credits
Required: 18 credits, SOC 211 and five other sociology courses (three of which must be at 300- or 400-level).

SOCIAL WORK, MINOR 18 credits
Required: SW 211, 212 and SOC 315 and SW/SOC 499. Additional required courses (six credits from the following) SW 225, SOC 318, 340, 351, 352, 361, 362, and SW/SOC 499 (may be taken an additional three credits beyond the required three credits).

GERONTOLOGY, MINOR 15 credits
Required: SOC/PSY/GERO 253, BIOL 257, GERO 499, PSY 467, SOC 353; additional required courses (three-six credits): PSY 499, REHB 495, or SOC 499; and three elective credits: ECON 150 or NURS 365.

Gerontology Courses

GERO/PSY/SOC 253: INTRODUCTION TO GERONTOLOGY **3 s.h.**
 Provides general introduction to social gerontology. Emphasizes the typical aspects of aging. Reviews current hypotheses and findings concerning aging processes. No prerequisite. Annually.

GERO 499: SEMINAR IN GERONTOLOGY **3 s.h.**
 Integrates knowledge and hands-on experience obtained in a field setting. Conducted as a seminar in which students share their experiences and do problem solving. The instructor facilitates this process and provides information to enhance learning. Co-requisite: REHB 495, SOC 499, or PSY 499.

Sociology Courses

SOC 211: PRINCIPLES OF SOCIOLOGY **3 s.h.**
 Introduces the nature and characteristics of human societies, the structure and processes of social life, the impact of social forces on personal and group behavior, and the interdependence of society and the individual. Each semester.

SOC 236: CRIMINOLOGY
 Examines historical and contemporary attempts to explain the origins of criminal behavior and society's reaction to it from a variety of perspectives. Provides students with an understanding of how these theories have influenced the present criminal justice system. Annually.

GERO/PSY/SOC 253: INTRODUCTION TO GERONTOLOGY **3 s.h.**
 Provides general introduction to social gerontology. Emphasizes the typical aspects of aging. Reviews current hypotheses and findings concerning aging processes. No prerequisite. Annually.

SOC 310: CLASSICAL SOCIOLOGICAL THEORY **3 s.h.**
 Acquaints students with the thoughts of sociologists who have made major contributions to the founding of the discipline and whose work continues to be relevant today. Prerequisite: SOC 211 or permission of the instructor. Fall, annually.

SOC 311: SOCIAL STRATIFICATION **3 s.h.**
 Examines class, social status, and power inequalities at the community, national, and world levels. Considers a history of inequality, theories of structured inequality, class information, poverty, class, gender, and racial inequalities, modality, and legitimacy. Prerequisite: SOC 211 or permission of instructor. On demand.

SOC 312: MICRO - SOCIOLOGY **3 s.h.**
 Explores the relationship between the individual and the social environment emphasizing group influences on individual attitudes and behavior. Examines major social psychological theories focusing primarily on symbolic interactionism, ethnomethodology, dramaturgy, and the sociology of emotions. Prerequisite: SOC 211 or permission of instructor. On demand.

SOC 315: SOCIAL WELFARE **3 s.h.**
 Examines the nature of social welfare policies and programs in the U.S. An overview of the history and administration of major social welfare programs is presented. Examines programs for the poor, the mentally ill, the disabled, children and families at-risk, the unemployed, and the aged in our society. No prerequisite. Spring, annually.

SOC 318: SOCIOLOGY OF DEATH AND DYING **3 s.h.**
 Provides an exploration of the sociological issues related to death, dying and bereavement. Topics examined include: societal definitions and attitudes, societal rituals and responses, and theoretical perspectives on death, dying and bereavement. Societal concerns regarding end-of-life decisions will be addressed. No prerequisite. Fall, annually.

SOC 320: CONTEMPORARY SOCIOLOGICAL THEORY **3 s.h.**
 Acquaints students with the thought of sociologists who have made major contributions to theoretical sociology since the 1930s. Covers the life, historical context, and major works of theorists such as Parsons, Merton, Dehrendorf, Coser, Collins, Homans, Blau, Turner, Goffman, and others. No prerequisite. On demand.

SOC 321: SOCIOLOGY OF WORK **3 s.h.**
 A study of occupational and organizational work settings, social meanings, types, and social functions of work. Analyzes unemployment and its social causes and consequences. Examines selected workplace reforms and proposed structural changes of work. Prerequisite: SOC 211 or ANTH 211. Once annually.

- SOC 340:** *THE SOCIOLOGY OF CONFLICT RESOLUTION* **3 s.h.**
 Analyzes social conflict and introduces the dynamics of conflict resolution. Emphasizes examining theories and methods of active nonviolent conflict resolution in small group and large organizational settings. Includes violence, types of noncooperation, negotiation, adjudication, and mediation. Uses cross-cultural data extensively. Prerequisite: SOC 211. Once, annually.
- SOC 351:** *CONTEMPORARY SOCIAL PROBLEMS* **3 s.h.**
 Examines the formation and indicators of problems that affect the functioning of society as a whole. Analyzes solutions to selected social problems. Prerequisite: SOC 211 or permission of the instructor. Once annually.
- SOC 352:** *THE FAMILY* **3 s.h.**
 Deals with development of the family and the home in its historical, economic, and legal aspects. Considers the various factors influencing the organization, disorganization, and reorganization of the family, as well as the modern trends in the basic institution. Prerequisite: SOC 211 or permission of the instructor.
- SOC 353:** *SOCIOLOGY OF AGING* **3 s.h.**
 Human aging takes place within a social and cultural context. Social and social-psychological perspectives will be used to gain a better understanding of the process, problems, and prospects of aging in American society. Prerequisite: SOC 211 or 253 or permission of the instructor.
- SOC 354:** *SPECIAL TOPICS IN SOCIOLOGY*
 Offered occasionally.
- SOC 356:** *SOCIOLOGY AND FILM*
 Uses the sociological perspective to analyze film content. Examines how film reflects society and particular ideologies and how society and ideas about social issues are influenced by film. Topics include family, race relations, substance use, the elderly, sexuality, and social stratification. Prerequisite: SOC 211 or permission of instructor. On demand.
- SOC 361:** *SOCIOLOGY OF DEVIANCE* **3 s.h.**
 A sociological perspective on social deviance and an overview of theoretical approaches. Research examples of various forms of deviant behavior, attributes and beliefs. Prerequisite: SOC 211 or permission of the instructor.
- SOC 362:** *RACE AND ETHNIC RELATIONS* **3 s.h.**
 Background of racial and ethnic identity. Examines contemporary aspects of inter-ethnic and inter-racial group relations. Considers proposals for alleviating and resolving problems and their implications. Prerequisite: SOC 211 or permission of the instructor. Once annually.
- SOC 395:** *SOCIAL CHANGE* **3 s.h.**
 Analyzes social change processes through study of major theories of social change and recent investigations in the general area of social change. Examines major social forces and movements shaping contemporary patterns of social change, e.g., industrialization, rationalization, urbanization. Examines the impact of inventions, discoveries, revolutions, reform movements, and attempts to direct the course of change through various types of planning and development programs. Prerequisite: SOC 211 or permission of the instructor.
- SOC 400:** *INDEPENDENT STUDY IN SOCIOLOGY*
 Concentrated exploration and study of a problem or area of sociology not covered by existing courses and in accord with the student's interest and needs and under the direction of department faculty member. Prior to enrolling, students are required to submit a written proposal outlining their plan of study for the instructor with whom they will be working. Enrollment limited to juniors and seniors with consent of the instructor. Maximum number of credits in SOC 400 is limited to nine.
- SOC 410:** *THE SOCIOLOGY OF SPORT*
 The perspective of this course is that sport is a socially constructed concept. Students engage in the analysis of sport as a contemporary social institution. Class participants, following the sociological tradition, detect, measure, and explain the reciprocal impact of sport with other institutions such as the family, education, and the economy. For example, sport as presently constituted, has numerous economic aspects; it is a form of work for many people. Examination of sport is based on the structural functionalist, social conflict, and symbolic interactionist paradigms of sociology. Prerequisite: SOC 211 or permission of instructor. Every third semester.
- SOC 450:** *RESEARCH METHODS* **4 s.h.**
 Fundamentals of the research process and methods, including research design, interview and questionnaire construction, sampling methodology, basic descriptive and inferential statistics, data collection, statistical analysis, interpretation, and presentation. Prerequisites: SOC 211; 3 hours in statistics or permission of the instructor. On demand.
- SOC 452:** *SEX, GENDER, AND SOCIALIZATION* **3 s.h.**
 Investigates the social consequences of the cultural universal that all societies categorize their members according to sex. Focuses on the learning, maintaining, and changing of gender roles in various institutional settings, especially the family, education, religion, politics, and work. Prerequisite: SOC 211.
- SOC/SW 499:** *SUPERVISED FIELD PLACEMENT* **3 s.h.**
 With the approval and under the supervision of a member of the sociology faculty or social work faculty, students are placed in field-work settings, e.g., child welfare agencies, offices of aging, divisions of the criminal justice system, community development agencies, etc., where they will observe and work with persons responsible for carrying out a range of specific human services. Requires a 10-hour commitment each week. May be repeated once for credit. Prerequisites: Permission of instructor, junior standing, and six hours in sociology.

Social Work Courses

- SW 211:** *PRINCIPLES OF SOCIAL WORK* **3 s.h.**
 Overview of social work as a profession with an introduction to social work with individuals, groups, families, and communities. Students examine a basic set of concepts, principles, and elements of practice. Fall, annually.
- SW 212:** *SOCIAL WORK WITH GROUPS* **3 s.h.**
 A study of the practice of group work, group dynamics and the use of various types of groups in social work settings. Spring, annually.

- SW 225:** *SOCIAL WORK WITH CHILDREN AND YOUTH* **3 s.h.**
 The study of social work approaches to prevention, intervention, and treatment of problems facing families and children. Examines concepts, policies, and practice issues in the field of child and family welfare. Fall, annually.
- SW 350:** *GERONTOLOGY SOCIAL WORK PRACTICE* **3 s.h.**
 Concepts, policies, and practice issues in social work with older adults. Examines methods of intervention, social service delivery systems, and the special needs of diverse older populations. On demand.
- SW/SOC 499:** *SUPERVISED FIELD PLACEMENT* **3 s.h.**
 With the approval and under the supervision of a member of the sociology faculty, students are placed in field-work settings, e.g., child welfare agencies, offices of aging, divisions of the criminal justice system, community development agencies, etc., where they will observe and work with persons responsible for carrying out a range of specific human services. Requires a 10-hour commitment each week. May be repeated once for credit. Prerequisites: Permission of instructor, junior standing, and six hours in sociology.

Sociology—Psychology

Mary Jo Reef, Ph.D., coordinator

Professors: Potter, Reef

The interdisciplinary program in sociology-psychology, leading to the Bachelor of Arts degree, is administered jointly by the departments of Sociology and Psychology. The degree was developed to provide a complementary course of study for students interested primarily in social and human service fields.

SOCIOLOGY-PSYCHOLOGY, B.A. 56 credits
Required: SOC 211; one of SOC 311 or 315; one of SOC 310, 312, or 320; and three courses of approved sociology electives, two of which must be at the 300-level or above. PSY 211; at least two of PSY 260, 354, 355 or 454; and three courses of approved psychology electives, two of which must be at the 300-level or above. Research Methods required: PSY 230 and either PSY 251/252 or SOC 450. An internship experience may be selected from PSY 499; SOC/SW 499; COOP 305, 404, 405, 368, 468. Additional coursework is limited to the following courses: SW 211, 212, 225, 350; PSY 364, 380, 464, 471; SOC 318, 340.

Spanish

SPANISH, B.A. SEE MODERN LANGUAGES AND CULTURES.

Theatre

Department of Theatre,

Marilouise Michel, M.F.A., chair

149 Marwick-Boyd Fine Arts Building

Telephone: 393-2283

Website: www.clarion.edu/academic/theatre

Professor: Michel

Associate Professor: Powers

Assistant Professors: R. Bullington, Levy

Instructors: Sear

The Department of Theatre at Clarion University is an undergraduate program offering both the Bachelor of Arts and Bachelor of Fine Arts degrees. The program provides classroom and practical experience that enriches the lives of students and produces live theatre that enhances the cultural

life of the university and the surrounding community. Education takes place not only in the classroom but also in theatrical laboratories and the world at large. Practical experience through dynamic and ambitious theatrical productions supplement department offerings. Many graduates are currently working in professional theatres.

Minor programs in theatre with concentration areas of acting, technical theatre, or dance are available to students regardless of major. Participation in most departmental performance activities is open to all students regardless of major.

The Bachelor of Fine Arts degree is open only to students through prepared audition or portfolio review. Dates for these auditions are scheduled each semester. Contact the Department of Theatre for more information.

THEATRE, B.A. 72 credits
Required: HIST 111, 112, 113, CMST 113, HUM 120, 121, THE 161, 253, 254, 352, 359, 360; nine credits chosen from 120, 154, 155, 201, 204, 215, 251, 301, 302, 304, 310, 311, 321, 350 or 351, 361, 368, 369, 370, 461; nine credits chosen from THE 262, 362, 363, 364, 366, 367; six credits selected from ENG 140, 342, 343, 344, 345, 412, 413.

- THEATRE, B.F.A.** 72 credits
- (1) **Concentration in Acting: Required:** THE 104, 155, 161, 201, 204, 251, 253, 254, 352, 359, 360, 361, 363, 368, 369, 370, 461, ENG 140; three credits selected from THE 262, 364, 367; three credits chosen from THE 262, 364, 366, 367; and three credits from ENG 344, 345, 412, 413; nine credits chosen from COOP 384, 484, THE 120, 204, 261, 262, 271, 301, 350, 351, 352, 356, 364, 366, 371, ENG 150, 342, 343, 344, 345, 412, 413, and MUS 131. Also required are an audition, eight non-credit production labs, and an approved Graduation Project.
 - (2) **Concentration in Musical Theatre: Required:** THE 103, 104, 201, 204, 253, 254, 301, 304, 310, 350, 351, 359, 360, 361, 363, 368, 461, MUS 125, 126, 128, 160, 161, MUSA 126/226 326/426, 131/132 or 331/332 or 130/330, three credits from THE 161, 261, 262, 271, 302, 352, 356, 363, 366, 367, 370, 371, COOP 384, 484. Also required are an audition, eight non-credit production labs, and an approved Graduation Project.
 - (3) **Concentration in Technical Theatre: Required:** THE 104, 161, 253, 254, 261, 262, 350, 351, 352, 359, 360, 362, 363, 364, 366, 367, 371, HUM 120 or 121, ART 211, 212, CMST 113; nine credits chosen from ART 121, 122, 125, 126. Also required are an audition, eight non-credit production labs, and an approved Graduation Project.



(4) Selection/Retention Standards for B.F.A./theatre majors:

Students must demonstrate potential for excellence in acting or technical design by means of an audition and/or a portfolio of designs and audition for acceptance into the degree no later than the end of their second semester in the program.

After completing a total of 60 credit hours, or prior to entering their junior year, B.F.A. students must appear before the theatre staff and demonstrate the following: a minimum 2.50 QPA in at least 12 credits within the required core curriculum and a written statement of career goals. At the time of this review, the theatre staff will inform the B.F.A./theatre student of any program deficiencies and specify a time limit for removing the deficiencies. Students who fail to meet the retention standard will be dropped from the B.F.A./theatre program. Students may appeal the decision of the theatre staff through the appropriate channels: department chair, dean, and vice president for academic affairs.

All B.F.A. candidates must complete a graduation project. This is an assignment that is mutually agreed upon by faculty and the student, and completed during the student's last three semesters. Students must register for THE 490 or 495 and work under the supervision of a project advisor. The goal of the B.F.A. graduation project is to provide evidence of critical thinking, enthusiasm for process, and a deep understanding of the student's work in their specific area of concentration.

THEATRE: ACTING, MINOR 18 credits
Required: THE 251, 253, 254, 352; nine credits selected from THE 155, 204, 361, and the capstone course.

THEATRE: DANCE, MINOR 18 credits
Required: THE 201, 253, 301, 302, 304, 311, 321. Required approved performance in at least three university theatre dance concerts.

THEATRE: TECHNICAL, MINOR 18 credits
Required: THE 253, 262; nine credits selected from THE 261, 362, 364, 366, 367; THE 359 as the capstone course.

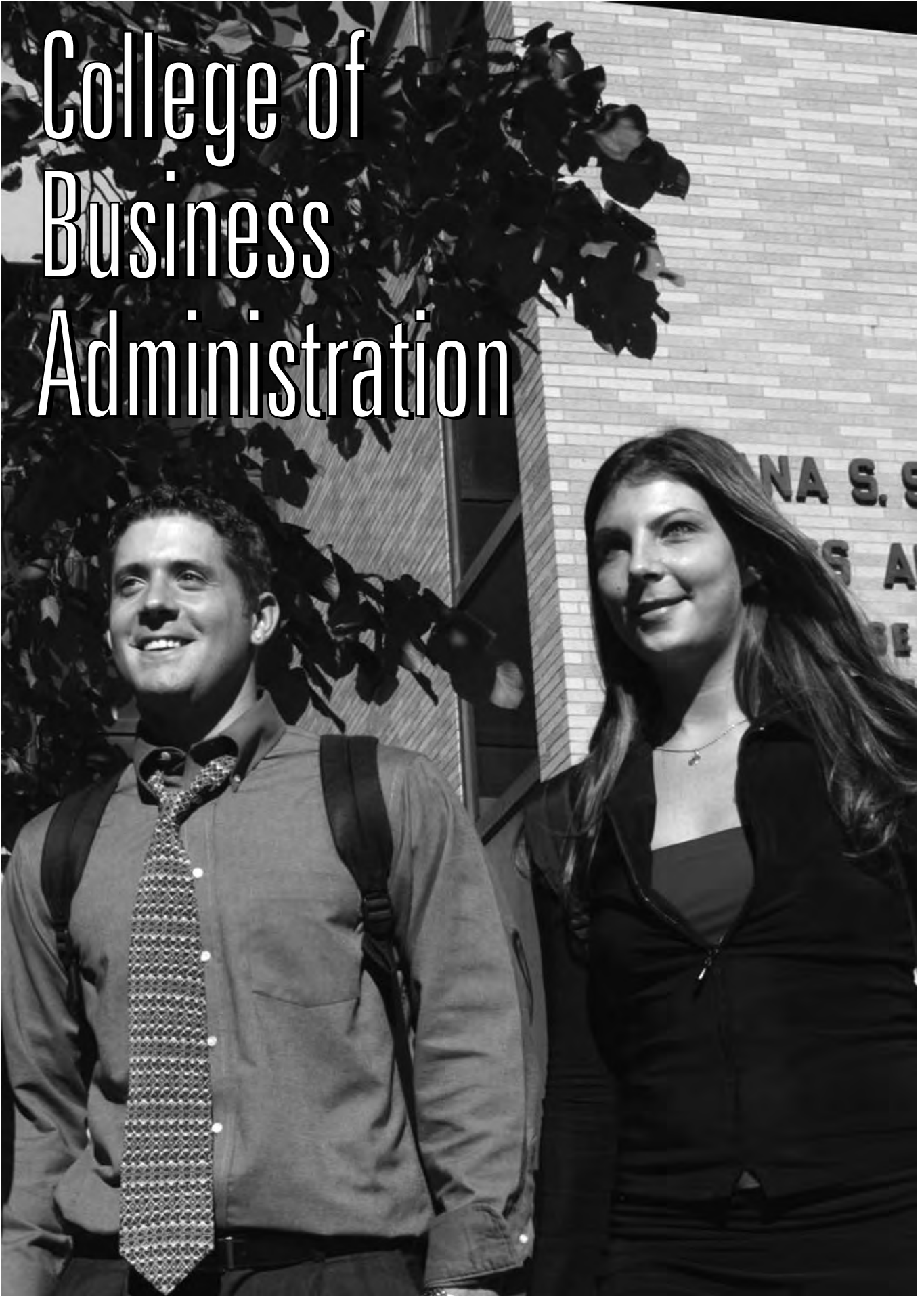
Theatre Courses

- THE 103:** *THEATRICAL PERFORMANCE* **1-3 s.h.**
Students earn one to three credits through performance in University Theatre productions by successfully completing the terms of the "Contract for Credit in THE Activities," subject to approval by instructor and department chair. No more than three credits may be earned in THE 103 during any one semester. Students may not enroll concurrently in THE 103 and 254, 350, or 361 without instructor permission. Each semester.
- THE 104:** *THEATRICAL PRODUCTION* **1-3 s.h.**
Students earn one to three credits construction lab in the scene shop and costume shop. Credits will be earned successfully completing the terms of the "Contract for Credit in THE Activities," subject to approval by instructor and department chair. No more than three credits may be earned in THE 104. Is a requirement for all B.F.A. theatre majors. Each semester.
- THE 120:** *THEATRE PLAY PRODUCTION* **3 s.h.**
Introduces elements of theatre, including directing, acting, make-up, criticism, stagecraft, and stage lighting. No prerequisites. Summer, annually.
- THE 154/**
MUSA 132/332: *SHOW CHOIR* **0-1 s.h.**
May be taken for one credit or for no credit. Credit may not be counted among the humanities in general education but may be counted under personal development and life skills and under free electives, with no more than five of these credits counted for graduation. Open to all students by audition only. Spring Semester.
- THE/CMST 155:** *INTERPRETATION I* **3 s.h.**
Develops expressive presentational skills through practice in the oral interpretation of literature. Focuses on analyzing an author's meaning, responding to it, communicating the meaning to an audience, and correlating oral interpretation with other arts. Fall, annually.
- THE 161:** *STAGECRAFT* **3 s.h.**
A study of the theory, materials, and practice of stage construction. Emphasizes technical instruction and the relationship between the dramatic function of the setting and its actual physical realization. Student projects and required production labs provide practical experience. Fall, annually.
- THE 201:** *DANCE I* **3 s.h.**
Focuses on alignment, strength, flexibility, balance, and locomotor movement. Surveys jazz, ballet, modern, and tap dance styles. For actors: a working knowledge of dance styles for performance and auditions. For everyone: an exploration of personal movement potential and an appreciation for the art of dance. Fall, annually.
- THE 204:** *MOVEMENT FOR THE ACTOR* **1-6 s.h.**
Designed to give student performers the tools for developing characters, and to develop a vocabulary with which to communicate with directors and movement coaches from a variety of backgrounds. Instruction focuses on building physical presence and body awareness, increasing flexibility and range of motion, and developing control necessary for efficient and communicative movement in a variety of theatre styles. Fall, even-numbered years.
- THE 215:** *SPECIAL TOPICS IN THEATRE* **1-6 s.h.**
Focuses on offering special topics reflecting the interest of students. Content varies from semester to semester. Suitable for both majors and non-majors in theatre. May be taken for a maximum of nine credits in the major. On demand.
- THE/CMST 251:** *VOICE AND ARTICULATION* **3 s.h.**
Helps students improve their speech by the elimination of faulty voice and articulation habits. Gives attention to basic skills, including vocal variety, projection, breath control, tonal production, and articulation. Focuses on both the technical production of speech sounds and the student's ability to communicate.

- THE 356:** *PLAYWRITING AND SCRIPT CONSTRUCTION* *s.h.*
 Introduces the art of the playwright and dramatic storytelling from plot construction to dialogue construction and addressing the needs of production in readings and exercises. Culminates with the crafting of a 10-minute play. Prerequisites: THE 253, 254, or 161, or permission of instructor. Spring, even-numbered years.
- THE 359:** *HISTORY OF THE THEATRE I* *3 s.h.*
 Explores plays and playwrights from Antiquity to the Baroque. Prerequisites: THE 253, 254, or permission of instructor. Fall, annually.
- THE 360:** *HISTORY OF THE THEATRE II* *s.h.*
 Explores plays and playwrights from the Romantic Period to Post-Modernism. Prerequisites: THE 253, 254, or permission of the instructor. Spring, annually.
- THE 361:** *ACTING II: SCENE STUDY* *3 s.h.*
 Further applications of the basic groundwork laid in Acting I. Students work in pairs or groups on scenes from published plays in order to sharpen their skills in character analysis, characterization, and truthful playing for the stage. May be taken as an elective but is designed for majors and serious students of acting. Prerequisite: CMST 254. Limited to theatre majors or minors, or consent of instructor. Spring, even-numbered years.
- THE 362:** *SET DESIGN* *3 s.h.*
 Study and practice in the aesthetics, methods, and techniques of scenic design, utilizing epic and Stanislavskian scenographic analysis. Prerequisite: CMST 161. Limited to theatre majors or minors, or consent of instructor. Spring, odd-numbered years.
- THE 363:** *THEATRICAL MAKE – UP* *3 s.h.*
 Acquaints the student with the basic principles and application of the art and technique of theatrical makeup. Spring, odd-numbered years.
- THE 364:** *SCENE PAINTING FOR STAGE* *3 s.h.*
 Studio instruction in the use of brushwork and pigment to develop landscape, ornament, paneling, and architectural detail in stage scenery based on the analysis of form and source of light. Limited to theatre majors or minors, or consent of instructor. Fall, even-numbered years.
- THE 366:** *PRODUCTION AND STAGE MANAGEMENT* *3 s.h.*
 A study of theory and practice of production and stage management in the professional, community, and educational theatre environments, including theatrical organization, rehearsal procedures, and performance duties. Limited to theatre majors or minors, or consent of instructor.
- THE 367:** *THEATRICAL COSTUMING* *3 s.h.*
 Familiarizes the student with the process of designing theatrical costumes. Includes costume history, fashion trends and rationales. Student projects and a required lab provide experience in the craft. Spring, even-numbered years.
- THE 368:** *PROFESSION PRACTICES : THE AUDITION PROCESS* *3 s.h.*
 Concentrates on the preparation and practices of talent in an audition situation. Emphasizes presentation for both prepared and cold audition situations and familiarity with the business aspects that are part of the auditioning process. Limited to acting students in the B.F.A. program, or by instructor's consent.
- THE 369:** *PLAYING SHAKESPEARE* *3 s.h.*
 Introduces the advanced acting student to an approach to Shakespeare's texts which requires an open and personal commitment to thought, language, and movement. Prerequisite: THE 361 or 254. Limited to theatre majors or minors, or consent of instructor. Spring, even-numbered years.
- THE 370:** *STAGE DIALECTS* *3 s.h.*
 Students learn, practice and perform in five commonly used stage dialects: Standard British, Cockney, Irish, Scottish, and Standard American Southern. Uses the International Phonetic Alphabet as a means to understanding the changes in certain key phonemes in each dialect. Utilizes films or videotapes of natural speakers when possible to help familiarize students with the lilt and musicality of each dialect. Students perform both monologues and scenes over the course of the semester. Prerequisites: THE 251 and 361, or 254 with permission of instructor. Spring, odd-numbered years.
- THE 371:** *SOUND DESIGN FOR THE THEATRE* *s.h.*
 Introduces the art of sound design to the theatre student from script analysis to technical production and implementation of sound equipment. Prerequisite: THE 161. Limited to theatre majors or minors, or consent of instructor. Fall, odd-numbered years.
- THE 461:** *STYLES OF ACTING* *3 s.h.*
 Through extensive research this course examines playing the character within the framework of historical style. Focuses on how to recognize style/period through research and the text and how to solve the problems of assuming and communicating style. Prerequisites: THE 254 and 361 or consent of instructor. Spring, odd-numbered years.
- THE 490:** *INDEPENDENT STUDY* *1-3 s.h.*
 Selected topics for research and/or performance projects in speech communication and theatre. Prior to registration, students need to obtain an advisor who will direct their study. Approval by appropriate dean required.
- THE 495:** *INTERNSHIP IN SPEECH COMMUNICATION AND THEATRE* *1-12 s.h.*
 The internship program gives the student the opportunity to apply classroom theory and techniques in business, government, theatre, and other cooperating organizations. Course open to any speech communication and theatre major with a junior or senior standing and consent of department. Student must have a 2.5 QPA or higher and 3.00 QPA in a major. On demand.

College of Business Administration

College of Business
Administration



College of Business Administration

James G. Pesek, Ph.D., interim dean

330 Still Hall

Telephone: 393-2600

E-mail address: COBA@clarion.edu

Website: www.clarion.edu/COBA/

Accreditations

AACSB International—The Association to Advance Collegiate Schools of Business

Clarion University's College of Business Administration is accredited by AACSB International. Fewer than 25 percent of the universities offering business administration and management education are AACSB International accredited. Clarion is the first university in the State System of Higher Education to achieve AACSB International accreditation of all its business degree programs including the master's degree. The accreditation provides external validation of the internationally competitive educational experience Clarion offers. This means that students, and the families that send them to Clarion, can be assured they are receiving solid business preparation that meets and exceeds international standards.

Association of Small Business Development Centers (ASBDC)

National Council on Economic Education (NCEE)

Approved and Registered Programs

The Legal Business Studies program is approved by the American Bar Association (ABA)

The Personal Financial Planning Program is registered with the Certified Financial Planning Board of Standards, Inc., as meeting the academic requirements necessary to qualify a student to sit for the CFP examination.

Degree Listing

Philosophy

The College of Business Administration offers curricula leading to the degree of Bachelor of Science in Business Administration, Master of Business Administration, Associate of Science degree in business administration, and Associate of Science degree in legal business studies. The College of Business Administration also offers minor programs in international business, economics, and business administration for non-business majors. The description below is concerned mainly with the undergraduate curriculum. For full information concerning the M.B.A. program, refer to the *Graduate Catalog* and the *Master of Business Administration* bulletin, which may be obtained from the College of Business Administration, 840 Wood Street, Clarion University, Clarion, PA 16214-1232. The descriptions of the Associate of Science degree programs are found on page 205.



All candidates for the Bachelor of Science or Associate of Science degree in business administration are required to take a broad program of business foundation subjects and then choose a business field of specialization in one of the following areas:

- Accounting (B.S.B.A.)
- Business Administration (A.S.)
- Business Economics (B.S.B.A.)
 - Economics (Minor)
- Finance (B.S.B.A.)
- Industrial Relations (B.S.B.A.)
- International Business (B.S.B.A.)
 - International Business (Minor)
- Legal Business Studies (A.S.)
- Management (B.S.B.A.)
- Marketing (B.S.B.A.)
- Real Estate (B.S.B.A.)

The curriculum leading to the degree of Bachelor of Science in Business Administration is designed to assist students in arriving at a better understanding of the complex relationships inherent in the rapidly changing domestic and international world of business, industry, and government; to provide educational experience that will help students develop their potential for leadership and service; to stimulate the growth of students as individuals and citizens; and to provide a qualitative environment in which educational enrichment can take place.

Supplemented by broad general requirements in the humanities, the social sciences, and the natural sciences, the business curriculum offers a well-balanced program of courses in business administration and economics which will not only help prepare students for careers in business, industry, and government, but also will give preparatory training to students who plan graduate study in business, economics, or law.

Although there is opportunity to develop depth in certain areas, i.e., accountancy, economics, finance, industrial relations, international business, management, marketing, and real estate, emphasis in the program is not on deep specialization but rather on the development of analytical ability, intellectual toughness, imagination, the ability to communicate ideas, and adaptability so that technological change does not render the education obsolete.



Mission Statement

The College of Business Administration at Clarion University of Pennsylvania prepares students for success in business, government, and other organizations while serving the academic and business communities through effective teaching, professional responsibilities, scholarly contributions, and service appropriate to the university and the region.

Objectives of Degree Program

1. Ensure each student has a general education composed of liberal knowledge, skills, applications, values, health, and personal performance experiences.
2. Ensure each student has a thorough knowledge of fundamental business concepts of appropriate breadth and depth and has the opportunity to integrate business disciplinary knowledge.
3. Ensure each student has a thorough knowledge of concepts within a particular business specialty.
4. Ensure each student has a thorough knowledge of the international and ethical dimensions of business management.
5. Prepare undergraduate students for entry-level professional positions in business, industry, and government.
6. Provide opportunities for business study for non-business majors at Clarion University.
7. Prepare aspiring, high-achieving students for entry into graduate programs.
8. Provide a reasonable level of direct contact with businesses and organizations to enhance application of learned classroom concepts.
9. Ensure academic programs adapt to changing requirements in business professions, adapt to changing expectations of businesses and other employers, are current with national educational trends, and are reflective of educational debate within professional associations.

Academic Standards

Business students pursuing the B.S.B.A. must meet the requirements for admission to the college's upper division. In addition, business administration students must meet graduation standards beyond general university requirements.

Students who are readmitted to the College of Business Administration after an absence of two years or more must meet all requirements of the college as of the date of readmission.

Students transferring into the College of Business Administration from other accredited colleges and universities must have earned a cumulative 2.50 QPA on a 4.00 scale. The QPA requirement applies to all course work taken at all universities prior to attending Clarion University. Clarion University students transferring from majors outside the College of Business Administration must have earned either an overall 2.50 QPA or a 2.50 QPA during their most recent full-time (12 or more credits) semester at Clarion University.

Credits for courses completed at other universities or colleges may be transferable to Clarion University, but the grades and quality points are not. Therefore, grades earned in courses accepted by the College of Business Administration to satisfy requirements of the lower- or upper-division core will not be used in the computation of the QPAs required by the academic standards of the College of Business Administration.

1. Mathematics requirements: All students in the College of Business Administration are required to take MATH 131 and 232. For MATH 232, students may substitute MATH 260, 270, 271, or 272. Beginning in fall 1991, all students accepted to the College of Business Administration must earn a grade of C or better in each of these required mathematics courses.
2. Separation of upper- and lower-division programs of study: All business students must meet the requirements for admission to the upper-division course of study in the College of Business Administration. The upper-division consists of all 300-level and above. No business student is permitted to take any 300- or 400-level courses in the College of Business Administration until the student has met the following requirements:
 - a. completed not less than 50 hours with a minimum 2.00/4.00 QPA;
 - b. completed mathematics requirements listed above;
 - c. completed CIS 217;
 - d. completed ECON 211 and 212 [grades for both ECON 211 and ECON 212 (or ECON 215) and the other lower division business core requirements (listed in e)] will be used to calculate the student's Lower Division Business Core quality-point average). *Note: Undergraduate students enrolled in the Honors Program, or with a 3.40 QPA or higher, may take ECON 215: Principles of Economics in place of ECON 211 and ECON 212. ECON 215 is a four-credit course; therefore, students choosing this option must take additional elective credits; and*
 - e. completed all required courses in the lower-division business core ACTG 251, ACTG 252, ECON 221, ECON 222 (or ECON 230), and BSAD 240 (with a minimum 2.00/4.00 quality-point average). *Note: Undergraduate students enrolled in the Honors Program, or with a 3.40 QPA or higher, may take ECON 230: in place*



of ECON 221 and ECON 222. ECON 230 is a four-credit course, therefore, students choosing this options must take additional elective credits.

Every business student must complete the courses in the upper-division business core (ECON 309 or ECON 310, MGMT 320, MKTG 360, FIN 370, MGMT 425, and BSAD 490), with a minimum 2.00/4.00 QPA, in order to meet graduation requirements. *Note: Students have the option of taking either ECON 309 or ECON 310. ECON 222 is a prerequisite for ECON 309. ECON 212 is a prerequisite for ECON 310.*

3. Courses within the major: In order to graduate, students must meet university requirements, the above standards, and achieve a minimum grade of C in each course presented as meeting the requirements for the major. There are 24 credits required of each business student to be placed in the “major area.” Either 18 or 21 of these credits must come from the specific area of concentration which has been declared by the student. A list of the requirements for each of the business majors is available in the College of Business Administration Dean’s office. The other three (or six) credits necessary to complete the 24-credit requirement must be business electives at the 300/400 level or BSAD 241. Additionally, at least one business course with international content must be included within the 24-credit block of “major courses” and a minimum grade of C must be earned in this course.
4. Each business student must complete six credits in courses with international content. At least three of these must be business credits and must be included within the 24 credits which apply to the major area of concentration (as detailed in number three above). The additional three credits may be utilized to satisfy requirements in general education or free electives. Courses taken to satisfy this requirement are to be selected from the approved international course list. Students should see their advisor or may obtain a copy of this list from the College of Business Administration Dean’s Office, 340 Still Hall.
5. Business students are not permitted to take business courses for credit-no record.

General Education Requirements

The general education program required for all students in the university is presented on page 59. Students must satisfy general education requirements which include flagged courses in lower- and upper-division business courses and in the major area. Students are urged to consult with their advisor about general education requirements listed earlier in this catalog. Students majoring in business administration must include six credits in mathematics (at least MATH 131 and MATH 232 or its equivalent); three credits for CIS 217, in fulfilling general education or free elective requirements; and six credits in economics (ECON 211 and 212). The general education requirements are summarized as follows:

Liberal education skills	12 credits
Liberal knowledge:	
Physical and biological sciences	9 credits
Social and behavioral sciences	9 credits
Arts and humanities.....	9 credits
Health and personal performance	3 credits
General education electives	6 credits
TOTAL	48 credits

Business Foundation Requirements

Regardless of the major chosen, all students of business administration must take 33 hours of foundation subjects. These have been selected with the following primary objective in mind:

1. To give students an insight into the major functions of organizations, whether they be private business firms or local, state, or federal government agencies.
2. To give students an understanding of the major problems within organizations as they pursue their goals.
3. To assist students in using the insights and methods of the humanities, social sciences, and natural sciences to analyze and illuminate these problems. Each of the foundation subjects either deals with an important aspect of organization or provides a tool which can be used in attacking problems faced by individuals in organizations. The courses, as a whole, comprise a common body of knowledge in business and administration.

4. To provide students with an understanding of the domestic and worldwide environment of business.

The following foundation courses are required of all business administration students:

GENERAL EDUCATION

ECON 211: Principles of Macroeconomics3 credits
 ECON 212: Principles of Microeconomics.....3 credits
 NOTE: ECON 215 (Principles of Economics) may be taken in place of ECON 211 and ECON 212 by undergraduate students enrolled in the Honors program or students with a 3.40 QPA or higher. ECON 215 is a four-credit course, therefore, students choosing this option will need to take an additional two credits as electives.

ACCOUNTING AND QUANTITATIVE

ACTG 251: Financial Accounting.....3 credits
 ACTG 252: Managerial Accounting3 credits
 ECON 221: Economic and Business Statistics I.....3 credits
 ECON 222: Economic and Business Statistics II.....3 credits
 NOTE: ECON 230 (Economic and Business Statistics) may be taken in place of ECON 221 and ECON 222 by undergraduate students enrolled in the Honors program or students with a 3.40 QPA or higher. ECON 230 is a four-credit course, therefore, students choosing this option will need to take an additional two credits as electives.

ENVIRONMENTAL

BSAD 240: Legal Environment I.....3 credits
 ECON 309: Managerial Economics3 credits
 or
 ECON 310: Intermediate Microeconomic Theory3 credits
 NOTE: Students have the option of taking either ECON 309 or ECON 310. ECON 222 is a prerequisite for ECON 309. ECON 212 is a prerequisite for ECON 310.

FUNCTIONS

MGMT 320: Management Theory and Practice3 credits
 MKTG 360: Principles of Marketing3 credits
 FIN 370: Financial Management3 credits
 MGMT 425: Production Management3 credits

ADMINISTRATIVE PROCESS

BSAD 490: Administrative Decision-Making3 credits

NOTE: MGMT 320, MKTG 360, and FIN 370 are prerequisites for BSAD 490.

TOTAL: 39 credits

Major Requirements

In addition to the general education and business foundation courses outlined above, all students studying business administration must build up a major consisting of at least 18 hours in one of the following areas:

accounting, business economics, finance, industrial relations, international business, management, marketing, real estate

Twenty-four hours of business and economics electives are required for each major. Of these 24, at least 18 are specified for each major. All four-year business administration students must take a minimum of 15 of the 24 credits required for the majors at Clarion University. Courses necessary to complete the 24-credit requirement must be business electives at the 300-/400-level or BSAD 241. Specific course requirements for each of these majors are outlined under the five academic departments on the following pages. The international business course requirement specified in the academic standards may affect business elective course selections.

Accounting

Department of Accountancy, Thomas W. Oliver, Ph.D., chair

334 Still Hall

Telephone: 393-2628

E-mail address: toliver@clarion.edu

Website: www.clarion.edu/coba/accy/

Professors: Danvers, Greci, Oliver

Assistant Professor: Otte

Accounting is the theory and practice of organizing, maintaining, and auditing the financial records of an organization or an individual. There are three main types of accountants: management accountants, who handle records of the companies they work for; public accountants, who work for or own independent accounting firms; and not-for-profit accountants, who work for governmental agencies and some health care organizations. Full or part-time internships are available to qualified students. The department offers a graduate-level professional accountancy course of study within the M.B.A. program. Most graduates go directly into the field in the areas of public, corporate, or not-for-profit accounting.

ACCOUNTING, B.S.B.A.24 credits

Required: Intermediate Accounting (ACTG 350); Accounting for Equities (ACTG 351); Cost Accounting (ACTG 352); Federal Taxes (ACTG 353); Auditing (ACTG 354); and Advanced Accounting (ACTG 355). Three credits of accounting electives and three credits of accounting or business electives.

Accounting Courses

ACTG 201: INTRODUCTORY ACCOUNTING SURVEY **3 s.h.**

Introduces accounting, the language of business. Emphasizes accounting terminology, concepts, and the interpretation and use of accounting information for decision-making. Designed for non-business freshman students only. May not be used to satisfy core or major requirements for degrees in business administration. Students who have passed ACTG 251 may not schedule this course. No prerequisite. Each semester.

ACTG 251: FINANCIAL ACCOUNTING **3 s.h.**

Examines the principles and procedures for collecting, recording, summarizing, and reporting financial information. Prerequisite: Sophomore standing, only at Clarion Campus. Each semester. Fall, annually at Venango.

- ACTG 252: *MANAGERIAL ACCOUNTING* 3 s.h.**
 Analyzes aspects of accounting that aid managers. Includes budgeting, cost behavior and systems, alternate choice decisions, international accounting aspects, and cash flow. Prerequisites: Sophomore standing only at Clarion Campus, and ACTG 251. Each semester. Spring, annually at Venango.
- ACTG 253: *FACTORY ACCOUNTING* 3 s.h.**
 Presents fundamental accounting concepts and techniques applied in record keeping and accounting control of the production process. Prerequisite: ACTG 252. Venango only, on demand.
- ACTG 254: *PAYROLL ACCOUNTING* 3 s.h.**
 Provides detailed coverage of payroll policy, records, wage calculation, deductions, and government reporting. Emphasizes tax form preparation. Prerequisite: ACTG 252. Venango only, on demand.
- ACTG 255: *FINANCIAL STATEMENT PREPARATION AND ANALYSIS* 3 s.h.**
 Focuses on procedures for financial statement preparation and the use of accounting information as a basis for decision making by management, owners, creditors, and other users of financial statements. Prerequisite: ACTG 251. Venango only, on demand.
- ACTG 256: *INCOME TAX PROCEDURES AND FORMS* 3 s.h.**
 Explains which types of income are taxable and which expenses are deductible. Covers both filling out and filing individual, partnership, and corporate tax returns. Prerequisite: ACTG 251. Venango only, on demand.
- ACTG 350: *INTERMEDIATE ACCOUNTING* 3 s.h.**
 Explores accounting theory and practice. Includes accounting for current assets, investments, plant and equipment, and intangibles. Emphasizes developing the student's technical and problem-solving ability. Prerequisite: ACTG 252. Each semester.
- ACTG 351: *ACCOUNTING FOR EQUITIES* 3 s.h.**
 Examines accounting theory and practice. Includes accounting for current and long-term liabilities, corporate equity, pension plans, long-term leases, income taxes, accounting changes, and cash flows. Emphasizes developing the student's technical and problem-solving ability. Prerequisite: ACTG 350 or consent of instructor. Each semester.
- ACTG 352: *COST ACCOUNTING* 3 s.h.**
 Analyzes cost principles, procedures, systems, controls, and analysis. Considers standard cost systems with the two basic cost accounting systems. Stresses cost accounting as a "tool" for management decision-making based on management information systems. Includes flexible budgets, accounting for by-products and joint products, transfer pricing, and environmental costs. Prerequisite: ACTG 252. Each semester.
- ACTG 353: *FEDERAL TAXES* 3 s.h.**
 Examines federal income, estate, and gift taxation. Considers problems of compliance with the law by individuals, partnerships, corporations, estates, and trusts. Prerequisite: ACTG 252. Each semester.
- ACTG 354: *AUDITING* 3 s.h.**
 A study of the purposes, the ethical and legal environment, financial analysis, and selected auditing techniques and procedures. Emphasizes developing the student's technical writing ability. Prerequisite: ACTG 351. Each semester.
- ACTG 355: *ADVANCED ACCOUNTING* 3 s.h.**
 Considers modern development in accounting, including recent studies and pronouncements by accounting authorities such as the American Institute of Certified Public Accountants and the Securities and Exchange Commission. Analyzes the problems of accounting for consolidation and partnership equity. Emphasizes developing the student's technical and problem-solving abilities. Prerequisite: ACTG 351. Each semester.
- ACTG 451: *ACCOUNTING PROBLEMS* 3 s.h.**
 A problem-oriented study of topics most often tested on the CPA exam. Includes inventory methods, long-term contracts, partnership, leases, consignments, installment sales, receivership, fiduciary accounting, and governmental accounting. Emphasizes preparations for the practice portion of the CPA exam. Prerequisite: ACTG 355. Spring Semester.
- ACTG 452: *ADVANCED COST ACCOUNTING* 3 s.h.**
 A study of advanced concepts of cost accounting to provide useful quantitative information for decision-making. Includes inventory valuation, cost allocations, joint-product costs, process costing, accounting systems, profit center costs, and segment performance measuring. Prerequisite: ACTG 352. On demand.
- ACTG 453: *PROBLEMS IN FEDERAL TAXATION ACCOUNTING* 3 s.h.**
 Examines federal income tax concepts and compliance problems of partnerships, corporations, estates, and trusts. Briefly considers Social Security, estate, and gift taxation. Prerequisite: ACTG 353. On demand.
- ACTG 454: *COMPARATIVE ACCOUNTING SYSTEMS* 3 s.h.**
 Helps students develop a holistic approach to the concepts and practices for the examination and exploration of accounting systems. Discusses specialized accounting systems in detail, depending upon the interest and desires of students. Prerequisites: ACTG 251, 252, 350, 351, 354, CIS 223, and 301. On demand.
- ACTG 455: *NOT-FOR-PROFIT ENTITIES* 3 s.h.**
 A study of the principles and practices of budgeting and accounting for activities of entities that are operated for purposes other than making profits. Prerequisite: ACTG 351. On demand.
- ACTG 461: *INTERNATIONAL ACCOUNTING* 3 s.h.**
 Studies the influence of cultural values on the practice and theory of accounting and developing sensitivity to the differences and similarities of different accounting systems. Includes consolidation, translation of foreign currency statements, inflation, replacement cost accounting of global-oriented corporations, and harmonization of accounting standards. Prerequisite: ACTG 252. Each semester.

ACTG/FIN 463: TAX PLANNING**3 s.h.**

A survey course to acquaint students with tax planning techniques which can be used to accomplish an individual's financial goals. An understanding of financial position, cash flow and income, gift and estate tax matters enables the student to suggest actions that fit the individual's financial priorities. Prerequisite: ACTG 353. On demand.

ACTG 490: CURRENT ACCOUNTING PRONOUNCEMENTS AND PRACTICES**3 s.h.**

A research study of current Financial Accounting Standards Board statements of standards, interpretations, concepts, exposure drafts, and discussion memorandums. The internship experience and related research topics will be presented, discussed, and integrated with the pronouncements. Prerequisite: COOP 420, Accounting Internship. Spring Semester.

ACTG 499: SPECIAL TOPICS IN ACCOUNTING**3 s.h.**

Presents various current topics affecting accounting practice and theory. Covers different topics from year to year as subjects of importance are identified. Prerequisite: ACTG 351 or consent of instructor. On demand.

Economics

Department of Economics, Rod D. Raehsler, Ph.D.,
chair

333 Still Hall

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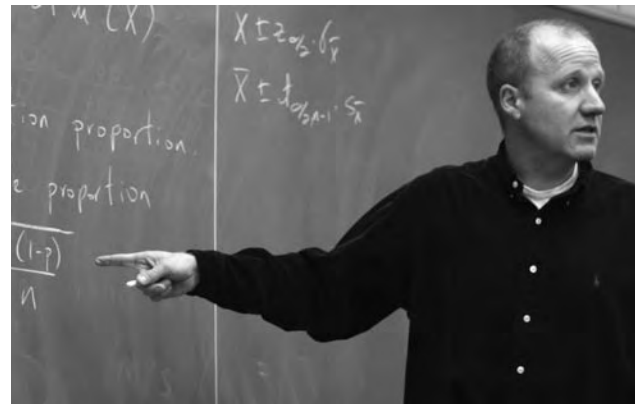
Professors: Balough, Raehsler, Sanders, Sohng, Stine, C. Yang**Associate Professors:** L. Smith, S. Trejos, P. Woodburne

Economics studies how our society organizes natural resources, labor, productive assets, and human ingenuity to produce goods and services. It studies the decisions of individuals, governments and business firms, as they attempt to use their scarce resources in the most efficient way.

Clarion's Bachelor of Science in Business Administration (B.S.B.A.) in Economics provides a variety of business skills. It combines economics courses with other beginning and advanced business courses. The following five program tracks have been designated: monetary economics, quantitative economics, international economics, urban and public affairs, and general economics. Students select the track that is consistent with their interests and personal goals. Students from this program have been successful in graduate school, and in a range of careers immediately after graduation. A number of positions are open to economics graduates. A minor in Economics is also offered, which complements most business majors.

The Economics Department at Clarion has an exceptionally high Ph.D. coverage, and its low student-faculty ratio for majors promotes high-quality instruction and personal attention. Economics is organized within the College of Business Administration, whose elite AACSB accreditation guarantees exceptional preparation in both economics and related subjects. Internships tailored to students' specific requirements can be arranged with banks, businesses, and other institutions. Located in Still Hall, the department has excellent classroom and computer facilities. Within individual courses, students are introduced to simulation and calculation on computers using a variety of software packages and databases, including a number developed specifically for economics classes at Clarion University.

Associated with the Economics Department are the Political Economy Club and the Omega chapter of



Omicron Delta Epsilon, the international honor society in Economics.

In addition to the business economics major listed below, the department offers students a major in economics in the Bachelor of Arts program of the College of Arts and Sciences.

- BUSINESS ECONOMICS (B.S.B.A.)** 24 credits
Required: ECON 311, six credits in 300- or 400-level elective courses in economics or other business courses (may include BSAD 241), fifteen credits in economics from one of the following tracks:
- MONETARY ECONOMICS TRACK** 15 credits
Required: ECON 361, 370, 371. Two additional economics courses or one economics course and FIN 476.
- QUANTITATIVE ECONOMICS TRACK** 15 credits
Required: ECON 309, 323, 470 and two additional economics courses.
- INTERNATIONAL ECONOMICS TRACK** 15 credits
Required: Three of the following four: ECON 312, 361, 363, 461. Any two additional economics courses or any one additional economics course and MGMT 426.
- URBAN AND PUBLIC AFFAIRS TRACK** 15 credits
Required: ECON 314, 342, 351. Two additional economics courses or one additional economics course and PS 375.
- GENERAL ECONOMICS TRACK** 15 credits
Required: Five courses in economics to be selected in consultation with and approved by the student's advisor.
- ECONOMICS (MINOR)** 18 credits
The minor in economics is available to students with any major from any college, including those in the College of Business Administration.
Required: ECON 211, 212, 310, 311. Six additional credits in 300- or 400-level economics courses selected in consultation with the student's minor advisor.

International Business

International Business is a multidisciplinary major within the Bachelor of Science in Business Administration (B.S.B.A.) degree that enhances the student's knowledge of the international environment within which United States and multinational businesses operate.

The major not only adds courses in international business and economics to the basic business administration core, but also includes international cultural coursework, language competency, and international experience requirements.

Clarion's International Business major provides a curriculum that helps prepare students for careers in business, industry, and government in paths such as international securities analysis, economic development, global marketing, multinational finance, management of global enterprises, and many more. It also develops the skills needed for effective interaction with foreign businesses and government officials. Many of our faculty members travel regularly internationally to teach or consult including teaching in Russia and China and bring the benefit of their expertise to the students in our program.

The international experience requirement for the major can be met in one of several ways. Our international travel and student exchange experiences regularly send students to approximately eight countries each year. Internship opportunities exist for International Business students in France, Ecuador, and Germany. The International Business Program Coordinator works with every International Business student on an individual basis to provide the type

of international experience that is best suited for that student, including students with proficiencies in languages other than the main languages offered at Clarion University.

A minor in International Business is also available to complement any major.

INTERNATIONAL BUSINESS (B.S.B.A.)24 credits

Required: ECON 361, MGMT 426, select six to nine credits from the following: ACTG 461, FIN 480, MKTG 469, select three to six credits (for a total of 18 credits in business administration courses): BSAD 341, ECON 312, ECON 363, ECON 461, select six credits from the department's international cultural course list. **Foreign experience requirement:** Students may meet this requirement in a variety of ways, including completing BSAD 437, COOP 321/421, interning with a foreign or international firm, completing a foreign study abroad experience, or other qualified experience. Students who opt for an internship in a foreign country are advised to take a commercial language course and should be Level II proficient in that language. **Modern language requirement:** Students must show competency in a language other than English. This will be accomplished by passing a nationally-recognized language proficiency exam at Level I as a minimum in any language covered by that examination or completing six credits of a foreign language at the 200-level or higher.

INTERNATIONAL BUSINESS, MINOR 18 credits

Required: Students must complete 12-15 credits of upper-division international business courses from among the following: ACTG 461, BSAD 341, ECON 312, ECON 361, ECON 363, ECON 461, FIN 480, MGMT 426, MKTG 469. Students must complete 3-6 credits from the following: BSAD 437, COOP 321/421, study abroad, or a foreign language.

Economics Courses

ECON/GS 140: CONSUMER ECONOMICS **3 s.h.**

Major aspects of personal financial management, including budgeting of income and expenditures, transactions, and relations with banks and other lending institutions, insurance and retirement plans, home ownership, personal taxes, savings, and investment plans. B.S.B.A. majors may apply this course only as a free elective. Alternate years.

ECON 150: ECONOMIC ASPECTS OF AGING **3 s.h.**

An introductory analysis of economic factors associated with an aging population. Topics include the economics of providing for income maintenance, housing, health care, social service, and leisure activities. The economic implications of individuals and the economy will be discussed. Spring, biennially.

ECON 161: GLOBAL BUSINESS AND ECONOMIC ISSUES **3 s.h.**

Introduction to basic principles of economics through the examination of contemporary global economic problems. Issues include basic economic development and trade, economic causes of global conflict, patterns of international capital flows, global energy dependence, and international human capital transfers. The course is aimed at developing a basic understanding of the economic dimension of global business and political issues.

ECON 175: ECONOMICS OF FREE ENTERPRISE AND PUBLIC POLICY **3 s.h.**

A basic introduction into the history of economics as a social science, the theory and application of microeconomics and macroeconomics, international economics, and economic alternatives in current social problems. This is a freshman-level course can be used only as general education elective in either the associate degree program or the baccalaureate degree programs. Majors in the College of Business Administration are excluded from the course. Each semester.

ECON 202: ECOLOGICAL ECONOMICS **3 s.h.**

An examination of the interdependence between the economy and the environment. Alternative theories of justice which are used in deciding environmental issues are examined. Economic perspectives of problem resolutions will be examined in general and with respect to specific environmental problems. Spring, annually.

ECON 211: PRINCIPLES OF MACROECONOMICS **3 s.h.**

Introduction to macroeconomics, national income analysis, money and banking, monetary and fiscal policies, inflation, unemployment, and international finance. **Note:** ECON 211 and 212 may be taken in either sequence. Each semester. Fall, annually at Venango.

- ECON 370: MONEY AND BANKING** **3 s.h.**
 Nature and origins of money; the commercial banking system and money creation; central banking and the Federal Reserve System; monetary policy and domestic and international economic stability. Prerequisites: ECON 211 and 212, or ECON 215. Spring, annually.
- ECON 371: PUBLIC FINANCE** **3 s.h.**
 Public sector activity and its impact upon resource allocation and income distribution. Topics include the theory of public expenditures, public choice, cost-benefit analysis, and fiscal federalism. The structure, incidence, and incentive effects of the personal income tax, corporate income tax, and various consumption and wealth taxes are investigated. Prerequisites: ECON 211 and 212, or ECON 215. Fall, annually.
- ECON 461: INTERNATIONAL FINANCIAL ECONOMICS AND CAPITAL MARKETS** **3 s.h.**
 An applied analysis of the behavior and rationale for multinational corporations, with a special emphasis on the economics of technology transfer. Topics include: theory of the firm, foreign direct investment, intellectual property rights, market imperfections, international trade, international finance, economic development, and technology. Prerequisite: ECON 311. Biennially.
- ECON 470: BUSINESS CYCLES AND FORECASTING** **3 s.h.**
 Theories of business fluctuations; applications of modern income theory to business cycles; examination of business cycle indicators and forecasting techniques. Prerequisites: ECON 211 (or ECON 215) and ECON 222 (or ECON 230), or consent of the instructor. Spring, annually.
- ECON 490: HISTORY OF ECONOMIC THOUGHT** **3 s.h.**
 Development of economic ideas from ancient times to the present. Emphasis upon the period from Adam Smith onward. Considers the economic and political environment in which ideas emerged as well as the leading economists advancing or defending the ideas. Prerequisites: ECON 211 and ECON 212, ECON 215, or consent of the instructor. Annually.
- ECON 491: INDEPENDENT STUDIES IN ECONOMICS** **1-3 s.h.**
 Opportunity to explore, in depth, a problem or area of economics, according to the student's interest, under the direction of a faculty member of the department. Prerequisites: 2.75 QPA and consent of both instructor and department chair. Maximum credit granted in ECON 491 is six credits.
- ECON 492: SPECIAL TOPICS IN ECONOMICS** **3 s.h.**
 An opportunity for students to investigate specific topics or current issues. Prerequisites depend upon the subject to be covered.

General Studies Course

Courses carrying the GS label are interdisciplinary in nature or are courses which do not fit into any of the usual academic disciplines. They are taken as free electives, as personal development and life skills under general education, or may with departmental approval be substituted for required courses in some majors.

- GS/ECON 140: CONSUMER ECONOMICS** **3 s.h.**
 Major aspects of personal financial management, including budgeting of income and expenditures, transactions, and relations with banks and other lending institutions, insurance and retirement plans, home ownership, personal taxes, savings, and investment plans. B.S.B.A. majors may apply this course only as a free elective. Alternate years.

Finance

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Website: www.clarion.edu/coba/finance

Professors: Belloit, Eicher, Ewedemi, Quesenberry, Stuhldreher, Yeane

Associate Professor: Eichlin

Assistant Professor: Shepard

The finance curriculum prepares students for a variety of positions in financial institutions and other corporations. Because finance is a functional area in every organization, students are exposed in their finance electives to a wide range of choices. The real estate program is designed to prepare students for careers in brokerage, appraisal, real estate law, management, finance, and investment in real estate.

- FINANCE (B.S.B.A.)** 24 credits
Required: Corporate Finance Track – FIN 371, 375, 376, 471, three courses from FIN 373, 374, 377, 463, 473, 474, 476, 480, RE 373, 471, ECON 370 or 371, and a finance or business elective, which must be an international business course unless FIN 480 has been chosen as one of the three courses. **Personal Financial Planning Track** – FIN 373, 375, 376, 463, 473, 474, one course from FIN 371, 374, 377, 471, 476, 480, RE 373, 471, and a finance or business elective, which must be an international business course unless FIN 480 has been chosen as one of the three courses.
- REAL ESTATE (B.S.B.A.)** 24 credits
Required: General Real Estate Track – RE 270, 271, 373, 470, 471, one course from BSAD 247 or RE 372, one course from RE 374, 472, 475, one course from ACTG 353, 453, 463, BSAD 241, 340, 341, ECON 314, 370, 470, FIN 375, 376, 463, MGMT 323, 324, 427, MKTG 363, 461, 462.
Legal Business Studies Track – Associate degree from American Bar Association approved program in Legal Business Studies or equivalent, RE 373, 470, one course from BSAD 247 or RE 372, BSAD 340, 448, RE 374. Real estate majors must select a three-credit international business course and a

three-credit real estate or business elective. All courses with an RE designation have been approved by the Pennsylvania Real Estate Commission for three credits each toward meeting

the education requirements for real estate brokerage licensing. RE 270 and 271 are the courses applicable toward meeting requirements of the salesperson licensing examination.

Business Administration Courses (see additional BSAD courses on page 159)

- BSAD 238: INTRODUCTION TO PARALEGAL STUDIES** **3 s.h.**
 Designed to provide an introduction to the present and potential role of the legal assistant within our legal system. The student will be introduced to the operation of the court structure and the tasks handled by paralegals within this structure. Introduction to legal research and office computers as well as ethical obligations of the Legal Assistant will be emphasized. A prerequisite for all other Legal Business Studies courses.
- BSAD 239: FAMILY LAW** **3 s.h.**
 In-depth study of all of the area of family law encountered by a legal assistant. Includes divorce, custody, child and spousal support, adoptions, termination of parental rights, and abuse of family members. Students learn both substantive law and procedure. Includes the creation of legal pleadings in the family law area. Prerequisite: BSAD 240. Biennially, Fall Semester at Venango.
- BSAD 240: LEGAL ENVIRONMENT I** **3 s.h.**
 Surveys law and society. Orients students to the judicial systems of the United States and the legal remedies and mechanisms at their disposal. Compares and contrasts both civil and equitable court functions through the illustrations of common law contracts, torts, criminal law, property law, and the administration of decedents' estates. Each semester at Clarion Campus. Fall annually at Venango.
- BSAD 241: LEGAL ENVIRONMENT II** **3 s.h.**
 Applies concepts explored in BSAD 240, Legal Environment I, in a business context. Emphasizes general substantive business law topics; i.e.: agency, partnerships, corporations, sales, negotiable instruments, and real property. Prerequisite: BSAD 240. Each semester at Clarion Campus. Spring, annually at Venango.
- BSAD 242: METHODS OF LEGAL RESEARCH** **3 s.h.**
 Students learn the traditional legal research materials and brief writing techniques, including use of digests and citators. Emphasizes legal research in the area of administrative law. Prerequisite: BSAD 240. Spring, annually, Venango only.
- BSAD 243: WILLS, TRUSTS, AND ESTATES** **3 s.h.**
 Provides instruction regarding the administration of the probate estate as well as necessary documentation and filing requirements. Students gain understanding of various laws governing transfer of property at death as well as tax consequences of such a transfer. Students also study creation of trusts and transfers during life. Concepts are applied to the actual drafting of wills, trusts, codicils, and ancillary documents. Prerequisite: BSAD 240. Biennially, Fall Semester at Venango.
- BSAD 244: ADMINISTRATIVE LAW** **3 s.h.**
 In-depth study of various administrative law topics. Familiarizes students with statutes and regulations supporting Social Security, unemployment compensation, and workmen's compensation. Involves study of judicial precedent and mock hearing practice. Prerequisite: BSAD 240. Biennially, Spring Semester at Venango.
- BSAD 246: CIVIL LITIGATION** **3 s.h.**
 In-depth study of various court procedures, including discovery, that the legal assistant will use in supporting an attorney during litigation. Familiarizes students with the rules of court, including both criminal and civil practice. Instructs legal assistants on how to prepare various court documents. Prerequisite: BSAD 240. Offered at Venango.
- BSAD 247: REAL ESTATE LAW FOR THE PARALEGAL** **3 s.h.**
 Includes estates in land, property sales contracts, deed preparation, title abstracts, searching courthouse records, adverse possession, easements, judgments and liens, tax sales, and the Real Estate Settlement Procedures Act. Students learn to complete all necessary documents involved in all real estate transactions and to prepare all histories of title so that the attorney may certify the title and complete closing. Prerequisite: BSAD 240. Biennially, Spring Semester at Venango.
- BSAD 248: LEGAL WRITING** **3 s.h.**
 Detailed study of the various writing tasks performed by a legal assistant. Students become proficient at writing pleadings, trial briefs, appellate briefs, legal memoranda, demand letters, and informational requests. Familiarizes students with various briefing techniques and rules of style. Explores the required briefing forms of various courts and administrative appeal agencies. Prerequisites: BSAD 240 and 242. Fall, annually at Venango.
- BSAD 249: FIELD EXPERIENCE** **1 s.h.**
 Exposes students to types of legal practices for various types of legal programs, including community programs, institutions, and courts. Includes instruction and orientation relative to professional responsibilities, ethics, and practical career considerations for a legal assistant. Prerequisites: BSAD 240, 242, 246, or concurrently with BSAD 242 and 248. Spring, annually. Venango only.
- BSAD 340: ENVIRONMENTAL LAW** **3 s.h.**
 A study of environmental law and policy in the United States. Explores the method in which business entities and environmental organizations—government and nongovernment—achieve compliance. Focuses on case law providing legal remedies for environmental torts and crimes. Prerequisite: BSAD 240. Spring, annually.
- BSAD 341: INTERNATIONAL ENVIRONMENTAL LAW** **3 s.h.**
 A study of international law and agreements affecting the global commons. Examines the process by which international accord is reached and enforced and the effects of GATT and NAFTA on environmental regulation. Analyzes the effects of transfrontier pollution, resource allocation and industrialization. Provides case studies involving the redress of environmental wrongs. Prerequisite: BSAD 240 or permission of the instructor. Fall, annually.

General Studies Course

Courses carrying the GS label are interdisciplinary in nature or are courses which do not fit into any of the usual academic disciplines. They are taken as free electives, as personal development and life skills under general education, or may with departmental approval be substituted for required courses in some majors.

GS 242: *YOU AND THE LAW* **3 s.h.**

Surveys the major fields of law. Emphasizes historical development, basic legal principles, legal theory and procedure, and their relation to the individual. Business administration majors may not take this course. Annually.

Real Estate Courses

Real Estate Fundamentals and Real Estate Practice are required by the Pennsylvania Real Estate Commission to prepare for the real estate salesperson licensure examination. All of the real estate courses listed below can be used to meet the educational requirements of the real estate brokerage licensure examination.

RE 270: *REAL ESTATE FUNDAMENTALS* **3 s.h.**

Introduces the broad area of real estate. Lays foundation of important principles for in-depth study. First in a two-sequence course (with RE 271) required to fulfill the educational requirement for licensure as a real estate salesperson in the state of Pennsylvania. Each semester.

RE 271: *REAL ESTATE PRACTICE* **3 s.h.**

Introduces the practice of real estate brokerage, real estate appraisal, real estate finance, and real estate investments. Second in a two-sequence course (with RE 270) required to fulfill the educational requirement for licensure as a real estate salesperson in the state of Pennsylvania. Prerequisite: RE 270. Fall, annually.

RE 372: *REAL ESTATE LAW* **3 s.h.**

Covers the legal relationships and legal instruments used in the practice of real estate. Prerequisite: RE 270. Spring, annually.

RE 373: *REAL ESTATE FINANCE* **3 s.h.**

A study of the methods of financing the purchase of real estate. Prerequisite or co-requisite: RE 271 or FIN 370. Fall, annually.

RE 374: *REAL ESTATE BROKERAGE* **3 s.h.**

Examines brokerage of real estate deals with the relationship between the broker, the client, and the customer; the broker and the salesperson; and the broker and the public at large. Also emphasizes the operation and management of a brokerage office, as well as ethical issues in business practice. Prerequisite or co-requisite: RE 271. Offered biennially.

RE 470: *REAL ESTATE APPRAISAL* **3 s.h.**

This course is designed to introduce the principles of real estate appraisal. It focuses primarily upon those appraisal techniques and analyses which concern the estimation of the value of residential and commercial properties. Prerequisite or co-requisite: RE 271. Offered biennially.

RE 471: *REAL ESTATE INVESTMENT ANALYSIS* **3 s.h.**

This course is designed to provide the necessary background to evaluate prospective real estate investment. The course will examine financial and non-financial aspects of investing in real property including risk, portfolio impacts, and income taxation consequences. Prerequisites: RE 271 or permission of instructor. Offered annually.

RE 472: *INCOME PROPERTY APPRAISAL* **3 s.h.**

This course is designed to provide advanced instruction in income property appraisal. The course will address the techniques and analysis necessary to estimate the value of an income-producing property. Prerequisite: RE 470. Offered on demand.

RE 475: *REAL ESTATE MANAGEMENT* **3 s.h.**

Provides instruction in the management of real property. Examines the maintenance, operation, and marketing of real estate. Prerequisite or co-requisite: RE 271. Offered biennially.

Industrial Relations

INDUSTRIAL RELATIONS, B.S.B.A.

See Management

International Business

INTERNATIONAL BUSINESS, B.S.B.A.

See Economics

Management

Department of Administrative Science,

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Professors: Pesek, Roth, Olivas

Associate Professors: Johns, Barboza

In what type of vocation are you interested: bank manager, purchasing manager, human resource manager, recruiter, training specialist, compensation manager, small business owner or manager, health services manager, industrial production manager, planner, or consultant? As a management or industrial relations major you will gain exposure to the knowledge and skills necessary to successfully enter your chosen career path. Two majors (management and industrial relations) and two tracks (general management, small business management) within the management major provide our students with the flexibility necessary to specialize in diverse areas of interest.

MANAGEMENT (B.S.B.A.) 24 credits

Required: MGMT 321, 322, 324, and 426 and must select one of the following three tracks:

General Management 9 credits

Required: Three courses from BSAD 437, MGMT 323, 420, 423, 427 428, 430, 445 450, 482, 483, 485 or 486.

Small Business Management 9 credits

Required: MGMT 323, 427, and 428.

All majors must take an additional 3 credit-hour 300/400-level business course or BSAD 241 to complete their 24-credit hour major.

INDUSTRIAL RELATIONS (B.S.B.A.) 24 credits

Required: MGMT 324, 426*, 482, 483, 485, and 486. Two courses from ECON 351, HIS 363, MGMT 321, 322, PSY 350, SOC 321.

*Student may substitute BSAD 437 for MGMT 426.



A student may earn a double major in management and industrial relations by taking the required courses for each major and successfully completing two additional upper-level management (prefix) courses with a C or better grade.

BUSINESS ADMINISTRATION, MINOR 21 credits

The business administration minor is intended to provide another academic option for non-business majors. Selection of this minor will broaden the academic pursuits of non-business majors, provide a credential that will make them more attractive to employers in the business sector, and serve as background for those intending to pursue the Master of Business Administration (M.B.A.) degree.

Required: ACTG 251 and 252, ECON 211 and 212, FIN 370, MGMT 320 and MKTG 360.

It is recognized that a number of non-business curricula contain required business courses (e.g., information systems). For those students whose major requires specific upper-division business courses, a maximum of nine upper-division business course credits must be completed beyond those required for their non-business major program.

Business Administration Courses (see additional BSAD courses on page 156)

BSAD 437: INTERNATIONAL BUSINESS SEMINAR 3-6 s.h.

Focuses on developing an understanding of the problems and opportunities faced by international organizations. In order to best achieve both micro and macro perspectives in the study of international aspects of the business, students visit businesses abroad for discussions with top-level executives. In addition to international travel, the students will meet with the instructor for a series of briefing and debriefing sessions. An additional three credits may be taken (for a total of six) on an individualized basis. Prerequisite: MGMT 320. Junior standing.

BSAD 490: ADMINISTRATIVE DECISION-MAKING 3 s.h.

Requires students to synthesize what had been learned in the separate business fields and to utilize this knowledge in the analysis of complex problems. Emphasizes organizational and industry research and its application to strategic decision making. Capstone course for a degree in business administration. Prerequisites: MGMT 320, MKTG 360, and FIN 370. Each semester.

BSAD 491: INDEPENDENT STUDIES IN BUSINESS 1-3 s.h.

Explores, in depth, a problem or area of business under the direction of a faculty member of the college. Prerequisites: 2.75 QPA and consent of both instructor and department head. Maximum credit granted in BSAD 491 is six credits.

BSAD 494: BUSINESS EXECUTIVE'S LECTURE 1 s.h.

Introduces students to successful business practices. Several prominent business men and women from the local area give a series of lectures concerning their business philosophies and practices. Assists students in bringing together knowledge attained from the business curriculum and suggesting practical applications of that knowledge. Prerequisite: MGMT 320.

Management Courses

- MGMT 120: INTRODUCTION TO BUSINESS** **3 s.h.**
 Introduces/surveys the philosophical and historical background of business institutions. Emphasizes the full range of business functions as it relates to the overall framework of society. Recommended for business students who have not selected a specific major. B.S.B.A. majors cannot apply this course to their major. Each semester.
- MGMT 121: FUNDAMENTALS OF MANAGEMENT** **3 s.h.**
 Introduces management and organization. Emphasizes managerial processes and functions and the interface of the manager with supervisors, subordinates, and the work environment. B.S.B.A. majors can apply this course to free electives only. Annually, Venango only.
- MGMT 210: ESSENTIALS OF ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT** **3 s.h.**
 Explores the entrepreneurial process associated with new venture formation. Examines managerial processes as they relate to the operation of a small business. The role of a formal business plan is highlighted and developed. Highlights the preparation involved in the formation of a new venture, developing the entrepreneurial plan, and adapting to contemporary challenges facing the entrepreneur. B.S.B.A. majors can apply this course to free electives only. Prerequisite: MGMT 120. On demand. Venango only.
- MGMT 227: APPLIED SUPERVISION** **3 s.h.**
 Prepares students for a position as a first-time supervisor and includes the essential elements of good management practices and stresses application rather than theoretical supervision concepts. B.S.B.A. majors can apply this course to free electives only. Prerequisites: sophomore standing and MGMT 120. Spring, annually, Venango only.
- MGMT/PSY 228: HUMAN BEHAVIOR IN ORGANIZATIONS** **3 s.h.**
 Explores how basic psychological principles can be used to describe, explain, and predict individuals' on-the-job thoughts, feelings, and behaviors. Includes personality, motivation, perception, attitudes, stress, communication, learning, leadership, group behavior, cooperation, decision-making, and research methods. B.S.B.A. majors can apply this course to free electives only. No prerequisites. On demand.
- MGMT 320: MANAGEMENT THEORY AND PRACTICE** **3 s.h.**
 Focuses on the development of management thought and its application. Includes planning, organizing, controlling, decision-making, motivation, leadership, work groups, and organizational change and development. Considers the domestic and international environments and changing societal values. Prerequisites: ECON 211, ECON 212, and junior standing. Each semester.
- MGMT 321: ORGANIZATION THEORY AND BEHAVIOR** **3 s.h.**
 Focuses on the managerial application of behavioral science research and theory in dealing with individuals, groups, and organizations. Prerequisite: MGMT 121 or 320. Each semester.
- MGMT 322: MANAGEMENT OF BUSINESS INFORMATION SYSTEMS** **3 s.h.**
 Shows managers how to develop business management information systems, either on their own or with the aid of system technicians. Simulates the systems techniques in organizing and analysis that the student will use in practice. Prerequisite: MGMT 320. Each semester.
- MGMT 323: PROBLEMS IN SMALL BUSINESS** **3 s.h.**
 Explores the challenges and prospects of initiating and operating a small business. Emphasizes strategies for creating and maintaining a sustainable competitive advantage in the marketplace. Highlights sources and uses of information needed for small business decision-making. Prerequisite: MGMT 320. Once every three semesters.
- MGMT 324: HUMAN RESOURCES MANAGEMENT** **3 s.h.**
 A study of the activities involved in human resource management. Includes high performance work systems, job analysis, human resource planning, recruitment, selection, equal employment opportunity, training and development, performance appraisal, compensation practices, and safety and health. Stresses a system approach. Prerequisite: MGMT 320. Each semester.
- MGMT 420: OPERATIONS RESEARCH** **3 s.h.**
 Examines scientific methods that provide managers with a quantitative basis for making decisions. Emphasizes deterministic and stochastic methods, including the transportation method, linear and dynamic programming, PERT, inventory control, queuing theory, and Markov analysis. Prerequisite: ECON 222.
- MGMT 423: BUSINESS, SOCIETY, AND CORPORATE CONDUCT** **3 s.h.**
 A study of concepts of, and theories about, interrelationships between business units and society in general. Employs the concepts and theories in the analysis of complex environmental problems encountered by business managers. Prerequisite: MGMT 320.
- MGMT 425: OPERATIONS MANAGEMENT** **3 s.h.**
 Examines the philosophy of F.W. Taylor and other management pioneers, the nature of the production cycle, simplification and diversification of product lines, purchasing, materials, control, routing, scheduling, dispatching, and plant layout. Prerequisites: ECON 221, 222, and MGMT 320. Each semester.
- MGMT 426: GLOBAL BUSINESS LEADERSHIP** **3 s.h.**
 Introduces the international environment and the growing discipline of multinational business in this environment—i.e., multinational management of strategic planning, organization, production, research and development, marketing, finance, and human resources. Prerequisite: MGMT 320. Each semester.
- MGMT 427: SMALL BUSINESS SEMINAR** **3 s.h.**
 Hands-on approach to the study of small business as it applies to the various sectors of the economy. Students gain direct exposure to small business through the development of a formal business plan for a new small business. Emphasizes the entrepreneurial activities involved as they relate to this process. Prerequisite: MGMT 320.



- MGMT 428: ENTREPRENEURSHIP** **3 s.h.**
 Explores entrepreneurship and the entrepreneurial process associated with new venture formation. Emphasizes creativity and innovation as they relate to the initiation of a new business. Highlights the preparation involved in the formation of a new venture, developing the entrepreneurial plan, and adapting to contemporary challenges facing the entrepreneur. Prerequisite: MGMT 320.
- MGMT/HPE 330: SPORTS MANAGEMENT** **3 s.h.**
 Provides students with an understanding of how the principles and concepts of management theory can be applied to sports administration. Prerequisite: MGMT 320.
- MGMT 445: MANAGEMENT SEMINAR** **3 s.h.**
 Designed for management majors as a follow-up course to MGMT 320. Presents the views of numerous management theorists and practitioners. Includes broad ranging areas of study and an integration of these areas through discussion, individual written and oral reports, and some case analyses. Students analyze and integrate theory and practice as a means of increasing understanding of the management process. Prerequisites: MGMT 320 and senior standing. On demand.
- MGMT 450/650: QUALITY MANAGEMENT** **3 s.h.**
 Examines quality management (QM), including the philosophies and principles of Deming, Juran, and Crosby. Focuses on the management and continuous improvement of quality and productivity in manufacturing and service organizations. Includes quality measurement, quality assurance, giving employees responsibility for quality, the team approach to quality, employee recognition, various QM tools, and process management techniques including Six Sigma. Prerequisite: MGMT 320.
- MGMT 482: COLLECTIVE BARGAINING** **3 s.h.**
 A study of the negotiation and scope of collective bargaining contracts; the substance of bargaining power and institutional goals are applied in the resolution of industrial conflict. Prerequisite: MGMT 324.
- MGMT 483: COMPENSATION MANAGEMENT** **3 s.h.**
 A study of the processes in analyzing, developing, implementing, administering, and performing on-going evaluation of a total compensation and benefit system for all organizational groups. Prerequisite: MGMT 324.
- MGMT 485: LABOR RELATIONS AND PUBLIC POLICY** **3 s.h.**
 Examines the labor relations functions as they relate to federal, state, and local statutes and labor policies. Includes EEO, OSHA, FMLA, ADEA, ADA, NLRA, LMRA, LMRDA, workers' compensation, and unemployment compensation. Prerequisite: MGMT 324.
- MGMT 486: OCCUPATIONAL SAFETY MANAGEMENT** **3 s.h.**
 Provides students with information concerning management techniques, government regulations and safety, and health program development within organizational settings. Prerequisite: MGMT 320.
- MGMT 499: SPECIAL TOPICS IN MANAGEMENT** **3 or 6 credits**
 Presents various current topics affecting management practice or theory. Different topics may be covered from year to year as subjects of critical importance or interest occur. Prerequisites: Junior standing and MGMT 320.

Marketing

Department of Marketing, Brenda Ponsford, Ph.D., chair

337 Still Hall

Telephone: 393-2628

E-mail address: bponsford@clarion.edu

Website: www.clarion.edu/coba/mktg

Professors: Garland, Kim, W. Lancaster, Ponsford

Marketing is a process employed by contemporary organizations to discover and adapt to consumers' needs and desires. It includes advertising, consumer research, and selling, as well as other activities affecting the transfer of goods and services from seller to buyer.

Clarion's Marketing Program has a balanced curriculum and a well-qualified, diversified faculty. The program is relatively small, so students have the opportunity to become acquainted with faculty members. Students can plan their programs to fit their particular interests and needs. Marketing students can also choose the international business minor.

Marketing courses are involved with application software in Still Hall's microcomputer lab.

Listings of internships are available.

The American Marketing Association student chapter is very active on campus, and outstanding senior marketing students are initiated into Alpha Mu Alpha, the national marketing honorary.

Clarion's program in marketing has been designed to prepare students for careers in advertising management, non-profit marketing, marketing research, physical distribution management, retailing management, and general marketing management. Types of entry-level positions available to graduates include: account executive, advertising manager, buyer, inventory control manager, marketing director, marketing research worker, media buyer, merchandise manager, product or brand manager, retail manager, salesperson, traffic and distribution services director, warehouse manager.

MARKETING, (B.S.B.A.) 24 credits
Required: MKTG 461, 465, 469. Twelve credits of marketing electives (four courses) from the following: MKTG 361, 362, 363, 366, 369, 462, 463, 468, 491, 495, and three credits of marketing or business elective.

Marketing Courses

MKTG 160: *CONTEMPORARY ISSUES IN MARKETING*

3 s.h.

Introduces contemporary issues in marketing and e-marketing in society and the world. Includes discussion of and composition of themes dealing with the impact of marketing on the society, its values, and the individual. May not be used to satisfy core or major requirements for degrees in business administration. Students who have passed MKTG 360 may not schedule this course. B.S.B.A. majors may apply this course only as a free elective. On demand.

MKTG 360: *PRINCIPLES OF MARKETING*

3 s.h.

The process in our society by which needs and wants of consumers are anticipated and satisfied. An examination of a systems approach to and analysis of the organizational function and the set of processes for creating, communicating, and delivering value to customers and for managing customer relationships in ways that benefit the organization and its stakeholders. Students develop an understanding of the increasing complexity of the modern marketing system, why it is essential, and how it performs in both domestic and international marketing situations. Prerequisites: ECON 211, 212, and junior standing. Each semester.

MKTG 361: *MARKETING MANAGEMENT*

3 s.h.

A study of coordinative effort in planning, organizing, and controlling marketing and e-marketing activities that direct the flow of goods and services from producer to consumer. Prerequisite: MKTG 360. On demand.

MKTG 362: *RETAILING MANAGEMENT*

3 s.h.

Introduces students to the field of retailing and e-tailing. They will study such areas as organizational structure, merchandising practices and procedures, promotional activities, store planning, control, etc. Prerequisite: MKTG 360, or instructor approval. On demand.

MKTG 363: *ADVERTISING MANAGEMENT*

3 s.h.

Examines the uses of advertising and advertising campaigns by business and e-business, giving emphasis to the patterns and types of marketing strategy and its various functions, legal and moral obligations, problems in developing and evaluating advertising programs, budgeting, scheduling, and client-advertising agency relationships. Prerequisite: MKTG 360. On demand.

MKTG 366: *CHANNELS OF DISTRIBUTIONS*

3 s.h.

Examines factors involved in the selection of marketing and e-marketing channels and problems involved in managing the task efficiently. Prerequisite: MKTG 360. On demand.

MKTG 369: *SERVICES MARKETING*

3 s.h.

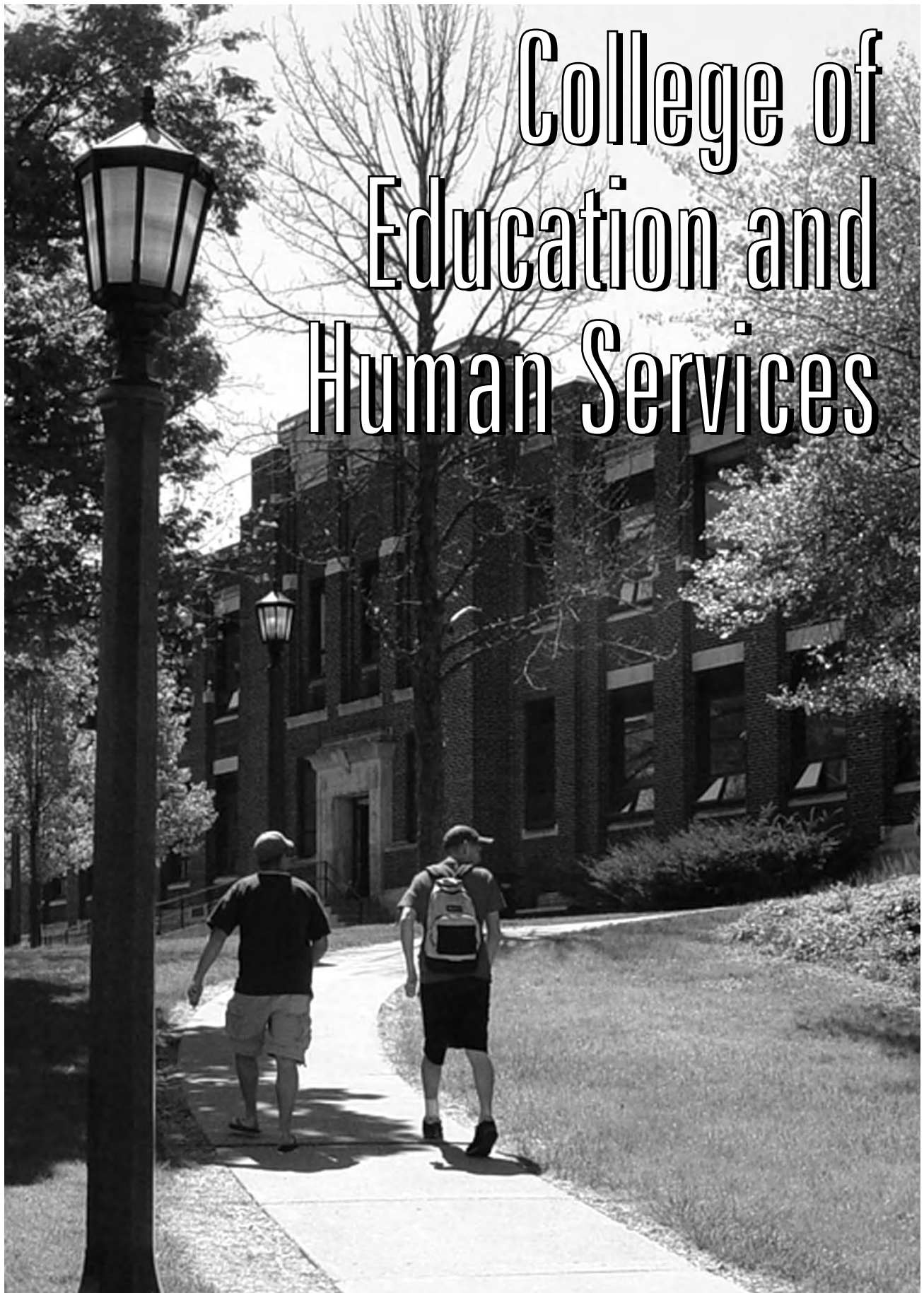
Offers upper-level business students the opportunity to study effective approaches to marketing and e-marketing of services. Includes non-profit and commercial organizations. Utilizes a case study, discussion methodology to study the conceptual background of service marketing. Prerequisite: MKTG 360; junior standing. On demand.

MKTG 461: *MARKETING RESEARCH*

3 s.h.

Examines the application of scientific and statistical methods and tools to the solution of marketing and e-marketing problems. Prerequisites: ECON 221, 222, and MKTG 360. Each semester.

College of Education and Human Services



College of Education and Human Services

John Groves, Ph.D., dean

101 Stevens Hall

Telephone: 393-2146

E-mail address: jgroves@clarion.edu

Website: www.clarion.edu/college/education

Accreditations

American Library Association (ALA)

Association for Childhood Education International (ACEI)

Council for Exceptional Children (CEC)

Council on Academic Accreditation of the American

Speech-Language-Hearing Association (ASHA)

International Reading Association (IRA)

Middle States Commission on Colleges and Schools

(Middle States)

National Association for the Education of Young Children

(NAEYC)

National Association of Schools of Music (NASM)

National Council for Accreditation of Teacher Education

(NCATE)

National Council for the Social Studies (NCSS)

National Council of Teachers of English (NCTE)

National Council of Teachers of Mathematics (NCTM)

Nation League for Nursing Accrediting Commission

(NLNAC)

National Science Teachers Association (NSTA)

Pennsylvania Department of Education (PDE)

Approvals

The American Chemical Society

U.S. Department of Education

Memberships

American Association of Colleges for Teacher Education

American Association of State Colleges and Universities

Council of Graduate Schools

Educational Associate Institute of International Education

Northeastern Association of Graduate Schools

Pennsylvania Association of Graduate Schools

Renaissance Group

The Teacher Education Council of State Colleges and

Universities

Programs administered through the College of Education and Human Services

LIBERAL STUDIES, B.S.,

CONCENTRATION IN LIBRARY SCIENCE 72 credits

Required: LS 255, 257, 258, 356, 357, 358, 361, and 385. A minimum of 39 credits must be at the 300-level or above.

LIBERAL STUDIES, B.S.,

CONCENTRATION IN SPORTS MANAGEMENT 72 credits

Required: HPE 370, 380, 430, 440, MGMT 320, 430, and COOP 447. One course from ECON 175, 211, or 212. A minimum of 39 credits must be at the 300-level or above. Students enrolled in this concentration are not eligible to receive the Sport Management minor

LIBERAL STUDIES, B.S.,

CONCENTRATION IN ATHLETIC COACHING 72 credits

Required: HPE 333, 334, 406, 407, 408, 409, 440, and COOP 444. Two courses from HPE 351, 352, or 354. A minimum of 39 credits must be at the 300-level or above.

Degree Listing

Teacher Education

Athletic Coaching*

Early Childhood Education (A.S.), See Venango Campus

Early Childhood Education (B.S.Ed.), Certification for grades N-3

Elementary Education (B.S.Ed.), Certification for grades K-6

Elementary Health

Elementary Special Education

Liberal Studies (B.S.)

Library Science*

Sports Management*

Athletic Coaching*

Health Promotion and Wellness

Library Science*

Library Science (B.S.Ed.), Certification for grades K-12.

French Education (B.S.Ed.) Certification for grades K-12.

Music Education (B.S.Ed.), Certification for grades K-12.

Secondary Education (B.S.Ed.), Certification for grades 7-12:

Biology

General Science

Chemistry

Mathematics

Earth and Space Science

Physics

English

Social Studies/Citizenship

Spanish Education (B.S.Ed.) Certification for grades K-12.

Special Education/Early Childhood Certification

Special Education/Rehabilitative Sciences (B.S.Ed.)

Special Education (B.S.Ed.), Certification for grades K-12.

Speech Pathology and Audiology (B.S.) pre-professional degree

Sports Management*

A dual certification with environmental education and one of the following areas is also available: elementary, biology, chemistry, earth and space science, and general science.

Students in any area may choose to obtain a Coaching Verification Certificate (13 credits), a Coaching Certification/Minor (18 credits), or a Sports Management minor. For details, contact HPE Department chair.

Human Services

Rehabilitative Sciences (B.S.)

Developmentally Disabled* Gerontology*

Substance Abuse*

Rehabilitative Services (A.S.)—see Venango Campus

Speech Pathology and Audiology (B.S.); graduate program

leading to the M.S. Degree and Teaching Certification grades

K-12.

**academic concentrations*

Due to proposed changes in Pennsylvania Code, Chapter 49 (Certification of Professional Professionals,) the information in this catalog related to Early Childhood, Elementary, and Secondary Education curriculum may be revised. See department chairs of the Education and Special Education Departments to be advised of the changes.

The College of Education and Human Services offers programs to prepare professional educators and other human services personnel. Nine specialized curricula are offered in professional education: early childhood education, elementary education, environmental education, library science, modern languages, music education, secondary education, special education, and speech pathology and audiology. Each teacher education curriculum is designed to meet the graduation requirements of the university, the certification requirements of the state, and the accreditation standards of various professional groups such as the American Speech-Language-Hearing Association and the National Council for the Accreditation of Teacher Education.

The mission of the Clarion University College of Education and Human Services is to prepare effective, dedicated, and high quality professionals, decision makers, and life-long learners who have mastered a recognized body of knowledge, internalized standards of excellence, and demonstrated the required candidate performances. At the center of the mission are learners, P-12 students, candidates, and education and human service professionals, who are active participants in the process of building knowledge, skills, and dispositions.

Based on a strong commitment to learning and teaching, the Conceptual Framework of the College of Education and Human Services defines the preparation of effective, dedicated, and high quality professionals as learners: constructing knowledge, skills, and dispositions. The framework reflects state and national education standards and describes principles of learning and teaching for administrators, teaching and human services professionals, candidates, learners, school district and agency partners, families, policy makers, and others who make decisions about excellence in Education. The framework offers a foundation for articulating and discussing current learning theories and research on effective educational practices and for assessing professional candidate performance.

The College of Education and Human Services is committed to selecting and graduating outstanding candidates who are empowered with the knowledge, skills, and dispositions necessary to assume responsibility for the exercise of professional judgment and continued professional growth to meet the needs of a diverse population in a rapidly changing society. The programs and environments offered by the College are dedicated to facilitating the development of professional candidates who apply knowledge, skills, and dispositions to:

- emphasize the importance of individual variations of unique physical, social, emotional, cognitive, and technological abilities and skills;
- embrace cultural diversity;
- respond to societal needs and influences affecting learners and their families;
- promote learning and teaching strategies that facilitate the development of meaningful knowledge, skills, and dispositions;

- provide authentic learning and assessment experiences with appropriate technology applications;
- support learning interactions fostering collaboration and cooperation among learners, families, and other members of learning communities;
- maintain high standards of professionalism;
- make effective educational decisions; and
- continue to learn and grow personally and professionally.

Human Services

In the human services field, programs are offered in rehabilitative services at the associate degree level, rehabilitative sciences and speech pathology and audiology at the bachelor's degree level, and a five-year program leading to the master of science degree. Certification also is available in speech pathology and audiology.

Programs in these human service areas provide students with the professional preparation to work with children, adolescents, and adults in institutional and community settings. Students in these programs are prepared to assist individuals who may experience a range of physical or mental handicaps. They develop their skills in classroom, clinical, and field settings at the university, cooperating agencies, and institutions. Completion of their degree program should help students qualify for employment in a variety of roles based on the training they receive in the various human services programs within the college. Their responsibility will be to help people acquire those competencies necessary for independent living.

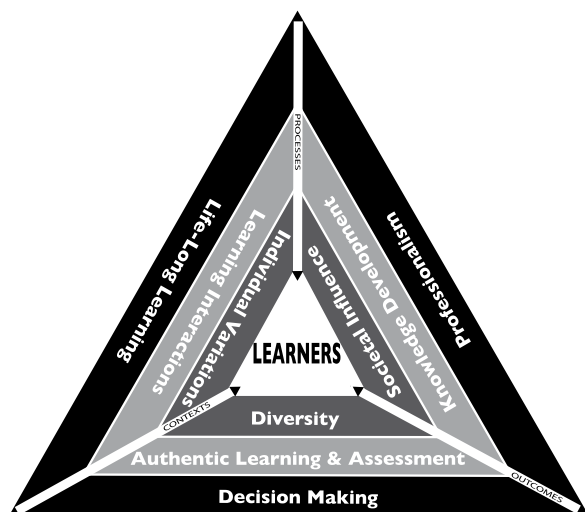
Teacher Education

In its teacher education programs, the College of Education and Human Services is committed to producing professionals who are effective decision-makers and whose skills, attitudes, and beliefs are built upon the following teacher education conceptual framework that underlies all teacher education programs in the college.



Teacher Education Conceptual Framework

Based on a strong commitment to learning and teaching, the mission of the Clarion University College of Education and Human Services defines the preparation of effective, dedicated, and high quality professionals as learners: constructing knowledge, skills, and dispositions. Clarion's Conceptual Framework for Learning and Teaching reflects the current knowledge base in the field of Education as advocated by professional accrediting agencies. The Conceptual Framework defines and describes principles of learning and teaching for administrators, teaching and human services professionals, students, families, policy makers, and others who make decisions about excellence in education. The framework offers a foundation for articulating and discussing current learning theories and research on effective educational practices for professional education candidates as well as for university and school faculty and for assessing professional candidate performance.



Learners are at the center of the Conceptual Framework. The centrality of learners, depicted by the graphic above, reflects current cognitive views of how individuals learn. The framework identifies both students and professionals as learners who are active participants in the process of building knowledge, skills, and dispositions within the context of what they already know and applying the new understandings and skills to authentic situations. Learners are surrounded by three triangles depicting the development of students and professionals as they acquire knowledge, skills, and dispositions within the:

- contexts of individual variations, diversity, and societal influences and the
- processes of knowledge development, learning interactions, and authentic learning and assessment to facilitate the
- outcomes of professionalism decision making, and life-long learning.

The first triangle of the model is Contexts. Learners

develop in the contexts of individual variations, diversity, and societal influences. The learners are inseparable from these important contexts. Contexts impact the ways in which individuals process and develop knowledge and experiences.

Individual variations provide complex contexts for the development of learners. As individuals develop knowledge, skills, and dispositions, they are dependent on the unique set of physical, social, emotional, cognitive, and technological abilities and skills they each possess.

Diversity is an important context in the development of learners. Educational programs include communities of learners encompassing students, families, and professionals from diverse backgrounds. Respect for and responsiveness to the diversity of learners is a crucial component of this context.

Societal influences include the economic, social, technological, cultural, and political contexts that affect schools and agencies. These contexts impact learners as they develop knowledge, skills and dispositions and apply these new understandings and skills to real-life situations.

The second triangle of the Conceptual Framework identifies the Processes of Knowledge Development, Authentic Learning and Assessment, and Learning Interactions. Learners use these processes to promote cognitive, language, creative, social, emotional, physical, and motor growth and development.

Knowledge development is a process learners use to build meaningful understandings that support growth and development. Grounded in cognitive learning theory, inductive and deductive instructional models assume the active involvement of learners in the process of acquiring and developing knowledge. Professionals use a variety of models of learning and teaching that are designed to help students develop deep understandings. Knowledge is not static but will continually evolve and change as learners confront new information, experiences, and technology.

Authentic learning and assessment are processes requiring understandings similar to the thinking encountered in actual situations outside the classroom. Effective instruction, technology, and authentic assessment assist learners in the application and investigation of real world problems and solutions. Learning experiences and assessments are anchored in the learners' real world experiences contributing to the knowledge construction in a particular content discipline.

Learning interactions is a process occurring as learners communicate, collaborate, and negotiate in the construction of knowledge, skills, and dispositions. Learning interactions are enhanced through the integration of technology. Interactions encourage learners to verbalize their thinking, refine their understandings, and reflect on growth and changes.

The third triangle reflects the learners's Outcomes. All university Education and Human Services programs for candidates at the initial and advanced levels guide and facilitate learners as they develop:

- Professionalism – personal codes of behaviors and responsibilities as members of learning communities;
- Decision making – essential skills in the active construction of knowledge, skills, and dispositions; and
- Life-Long Learning – habits of inquiry and reflection that help nourish continuing curiosity and excitement about the world.

Certification

Students who complete one of the teacher education curricula at Clarion and who are awarded a baccalaureate degree are qualified for the Pennsylvania Instructional I Certificate, valid for six years of teaching. The student must make application for the certificate and the certificate must be issued before graduates may teach in the public schools of Pennsylvania. **Because the recommendation for certification is based upon program requirements in effect when the application is filed, students are urged to do this during the semester in which they plan to graduate.** Applications are available in the Office of Field Services.

Students should be aware that Act 34 of 1985, Act 33/Act 151 of 1994, and the FBI Clearance of 2006 require applicants and some transferring employees of public and private schools, licensed day care centers, and some residential facilities to provide a criminal record check, a child abuse clearance, and Federal Bureau of Investigation clearance. Some human services agencies also require these clearances of prospective employees. Applications for teacher certification may be denied based on information presented in these background clearances.

Any certificate may be extended to include other teaching fields by completing approved programs in those areas. Students not enrolled in a program leading to a Bachelor of Science in Education degree can make application for teacher certification by obtaining admission to and completing one of the university's approved programs in teacher education. For further information, consult the Dean's Office, College of Education and Human Services.

The Instructional I Certificate will be issued to individuals who fulfill the following:

1. Possess a baccalaureate degree.
2. Successfully complete an approved teacher certification program.
3. Provide verifications of a valid health examination (within one year) and negative tuberculin test (within two years) at the date the application is processed.
4. Present evidence of having passed the Pennsylvania Department of Education prescribed and administered teacher certification tests in all certification areas.
5. Receive recommendation for certification from the dean, College of Education and Human Services.

College of Education and Human Services Selection, Retention, and Graduation Standards

- I. Student responsibilities in any program of the college
 - A. Complete all application forms in a timely fashion:
 1. Admission to program
 2. Student teaching/internship/externship experience
 3. Graduation from the university
 4. Certification, where appropriate, from the Commonwealth of Pennsylvania
 - B. Meet with advisors on a regular basis for career and program counseling as well as at the appropriate checkpoints in the program to obtain the appropriate forms.
 - C. Arrange for any tests needed to comply with the Public School Code of 1949, as amended, Article XII, Section 1209, which in part provides that teaching certification may not be issued if the "applicant is either mentally or physically disqualified by reason of tuberculosis or any other communicable disease or by reason of mental disorder, from successful performance of the duties of a teacher."
- II. Admission to a program
 - A. All programs require completion of 48-60 semester hours and a cumulative 2.8 QPA, including six semester hours of introductory courses (grade of C or higher) to be determined by the appropriate department in the College of Education and Human Services.

Elementary Education	ED 110, ED 121
Early Childhood Education	ED 110, ED 121
Library Science	LS 255 and either ED 110 or ED 122
Modern Languages	ED 110, ED 122
Music Education	ED 110, ED 122
ALL Secondary majors	ED 110, ED 122
Special Education (K-12)	SPED 126, 220
Rehabilitative Sciences	REHB 126, 227

DUAL CERTIFICATIONS:

Elementary/Early Childhood	ED 110, ED 121
Elementary/Special Ed	ED 110 or ED 121 and SPED 126
Elementary/Library Science	ED 110 or ED 121 and LS 255
Special Ed/Early Childhood	ED 110 or ED 121 and SPED 126
Speech Pathology and and Audiology	CSD 125, CSD 150, CSD 156
 - B. Completion of a speech and hearing screening
 - C. ACT 33/151, ACT 34, and FBI clearances (Act 114)

- D. PASS PRAXIS I tests – Pre-Professional Skills in Reading, Writing, and Mathematics before 300-level Education courses are permitted
- E. Two college-level ENGLISH courses are required
– ENG 111 (Composition) and one Literature (Grade of C or higher)
- F. Two college-level MATHEMATICS courses are required (Grade of C or higher)
– Elementary and Early Childhood MATH 111, MATH 211 (prerequisite for ELED 324)
– Secondary Mathematics CIS 163
– Secondary Biology and Earth and Space MATH 171 + 1 higher level
– Secondary Chemistry MATH 270, 271
– Secondary General Science MATH 171, MATH 221 or 321
– Secondary Physics MATH 270 + 1 higher level
– Speech Pathology and Audiology MATH 112 or higher + MATH 221 or PSY 230
– ALL others MATH 112 + 1 higher level

NOTE: MATH 050 DOES NOT count toward general education requirements, graduation, or as a MATH requirement for education majors.

NOTE: All students must complete both English requirements, CMST 113 and both mathematics requirements with a grade of C or higher prior to student teaching or intern/externship.

- G. Possession of an appropriate required cumulative QPA or higher at the time of application.
- H. Removal of any academic, physical, or mental deficiencies noted at any point in the student's program that would prevent the candidate from fulfilling the responsibilities of the professional area.

NOTE: Transfers and readmits must meet these requirements as well, but will be treated on a case-by-case basis.

III. Retention in a program

- A. Maintenance of an appropriate cumulative QPA.
- B. PRAXIS II (Content Knowledge & Specialty Tests) Student teachers must provide verification of PRAXIS II tests being passed before student teaching.
- C. Attainment of a grade of C or higher in all required professional courses and all required major courses in an area. Elementary and early childhood majors must also attain a grade of C or higher in required content competency courses. All proficiencies must also be C or higher (or equivalent).
- D. Removal of any academic, physical, or mental deficiencies identified after admission to a program before being permitted to continue in the program.

- E. Completion of all program requirements.
- IV. Qualification for student teaching/internship/externship
- A. Completion of 90 semester hours of university credit in professional program, including all teaching methods or clinical courses.
- B. A grade of C or higher in all required professional courses, all required major courses, required content competency courses (Elementary and ECH), and proficiencies (where required).
- C. An overall appropriate cumulative QPA. (2.8)
- D. Satisfactory completion of required tests (PRAXIS), review of criminal record (ACT 34), child abuse clearances (ACT 33/151), and FBI clearance (Act 114) are necessary for field placement, including verification of a valid health examination and negative tuberculin skin test.
- V. Graduation requirements
- A. Fulfill all university standards for graduation.
- B. An overall appropriate cumulative QPA. (3.0)
- C. A grade of C or higher in ALL required professional courses, ALL required courses in the major area, content competency courses for Elementary and ECH majors, and proficiency courses (where required).

VI. Pennsylvania certification requirements at Clarion University

- A. Complete all program requirements and meet the standards of the Teacher Certification Program at Clarion University.
- B. PASS ALL appropriate CURRENT examinations required by PDE.
ALL MAJORS PRAXIS I (Reading, Writing, Mathematics) and appropriate Specialty Area Exam(s)
ELED, ECH & Fundamental Subjects –
ALL K-12 Majors Content Knowledge

NOTE: Test registration information is available at www.ets.org.

- C. Complete application for certification.
- D. Certify U.S. citizenship or hold an immigrant visa which permits employment within the United States and declares intent to become a U.S. citizen.
- E. Certify no habitual use of narcotic drugs in any form or excessive amounts of intoxicating beverages (School Code 1209) and not under indictment for and not convicted of a criminal offense.
- F. A health examination is required (within one year) and negative tuberculin test (within two years) at the date the application is processed. These must be completed at the Keeling Health Center on campus.
- G. Receive recommendation for certification from the Dean, College of Education and Human Services or current Certification Officer.

VII. The College of Education and Human Services will, through a formal agreement with Student Support Services and the Educational Opportunities Program, identify students with disabilities for the purpose of advisement in relation to professional, certification, and degree requirements.

- A. Students with disabilities will be encouraged to self identify to their faculty advisor, and/or department chair and associate dean for purposes of receiving appropriate accommodations which ensure their full participation in a college program.
- B. The associate dean, department chair, or advisor may meet with each student with disabilities to discuss professional, certification, and degree requirements. The associate dean and/or department chair will discuss these issues with regard to the student's disability and any potential functional limitations that may impact the attainment of certification, the degree, and effective practice in the profession. Appropriate accommodations and strategies to compensate for any functional limitations will also be discussed with the student. Results of this meeting will be documented, signed by the associate dean, and copies of the report will be placed in the student's departmental file, field experience file, and Student Support Services file.
- C. Whenever possible, students will be placed and supervised in an early field assignment as a means to ascertain their abilities and to develop strategies to overcome functional limitations.
- D. If faculty suspect a student has a disability which may negatively affect the student's ability to obtain certification, the degree, or practice in the profession, the student should be referred to Student Support Services for assistance.
- E. All faculty will be made aware of the need to openly discuss professional, certification, and degree requirements with students with disabilities. However, the final decision to pursue a degree program rests with the student as long as program requirements are met satisfactorily. Faculty must also be aware that all graduates of certification programs should be qualified to practice in the profession in a competent manner.

VIII. Transfer students

Each transfer student must follow the selection and retention standards of the College of Education and Human Services. The college dean will evaluate transcripts and any deficiencies will be noted. An advisor will be assigned to assist transfer students in developing individual plans to remove identified deficiencies. If student is transferring 60 or more credits, PRAXIS I tests must be passed before higher level education courses may be taken.

IX. Petitions procedure

The faculty of the College of Education and Human Services recognizes there may be times when special

circumstances arise which may legitimately justify the waiver of certain policies and/or standards. Students who have failed to meet the policies and/or standards because of unusual and extenuating circumstances are permitted to file a petition with the college. Petition forms are available in the Office of the Dean. All petitions must be written, addressed to the dean, and filed in a timely fashion. Students will be notified in writing from the Dean's Office regarding a decision, with a copy to the student's academic advisor.

Application Procedures for Student Teaching/Internships/Externships

1. Read the qualifications for student teaching, internship, and externship, and the conditions for assignment.
2. Complete the Application for Student Teaching/ Internship/Externship with the advisor. Complete the Personal Data Form. Return these forms to the Office of Field Services.
3. Discuss questions concerning assignments, if necessary, with the academic advisor, department chair, or director, Office of Field Services.

Conditions for Assignment

1. All qualifications must be met prior to the start of the student teaching, internship, and externship.
2. Applicants must have verification of a valid health examination and negative tuberculin skin test prior to reporting to the field assignment. Verification of liability insurance is also required.
3. Students are responsible for their own travel and housing arrangements. Every attempt is made to place students at approved sites within a 50-mile radius of Clarion.
4. Students will follow the school district/agency calendar, including in-service days, breaks, and holidays.
5. Applicants will not be assigned to school districts they previously attended as elementary and secondary pupils and those where relatives work and attend school.
6. Applicants will not be assigned to their home communities.
7. Assignments will be for a full day, five days per week, for a full semester.
8. Tentative assignments for summer and fall will be announced during April; assignments for spring will be available by last week of classes in December. Applicants may wish to secure housing in the community where they are assigned.
9. Applicants will be assigned to selected and approved sites and cooperating professionals by the academic departments and Office of Field Services. Students are not permitted to make their own arrangements.
10. Applicants will not be permitted to enroll in courses, except designated seminars, during this professional semester; this field experience is a full-time professional responsibility. A petition to take other courses during this semester must be approved by the Dean's Office.
11. Applicants will report any changes in status or plans to the director, Office of Field Services, whenever they occur.



Education

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Assistant Professors: Goodman, Manno, Murphy

Instructor: N. Donato

The Education Department is committed to preparing outstanding graduates empowered as decision-makers and reflective practitioners. These individuals shall have the knowledge and skills necessary to take their places in society as professional educators, capable of meeting the needs of a diverse population in our rapidly changing society. The overall mission of the department is to develop educators who have mastered both general knowledge and specialized training, including a recognized body of knowledge in

professional content and pedagogy, and a successful integration of technology into day-to-day instructional practices. Individuals will demonstrate an internalized standard of excellence, will be prepared to meet professional employment requirements, and will be ready to assume responsibility for the exercise of professional judgment and for continued professional growth.

The friendly, experienced faculty of the Education Department at Clarion is committed to students and to the profession of teaching. Serving as academic advisors, faculty members encourage and help individual students attain their professional teaching goals. Small, student-centered classes and a variety of field experiences are offered in five specialized curricula in professional education: early childhood education, elementary education, environmental education, modern languages, and secondary education. Each curriculum is designed to meet the graduation requirements of the university, the certification requirements of the Commonwealth of Pennsylvania, and the accreditation standards of professional groups such as the National Council for the Accreditation of Teacher Education.

Elementary Education

Teacher candidates pursue an academic program that includes general education courses, professional education courses, and an area of emphasis.

General Education

The elementary education major should fulfill the general education requirements of the university (Page 59).

Professional Competencies

General education courses may be used to meet the following content competencies required for certification in Pennsylvania: American history, arts, biological science, earth science, economics, literature and language, mathematics, physical science chemistry, physical science physics, speech, and world geography. Two college-level English (composition/literature) and math courses are required.

Professional Education Courses

The following courses are required of all elementary education majors.

Professional Education Core (18 credits): ED 110, 217, 225, ELED 327, 329, and SPED 418.

Elementary Education Core (17 credits): ED 121, ELED 250, MUS 224, HPE 323, ELED 323, 331.

Elementary Block (15 credits): ELED 324, 325, 326, 330, SCED 322.

Student Teaching (12 credits): ELED 424, 425 (Students electing dual certification are required to take six semester hours of ELED 424 and six semester hours of student teaching in the other area of certification.)

Area of Emphasis

Elementary education majors must complete an area of emphasis of courses selected from the humanities, natural sciences, social sciences, mathematics, computer science, health, or any other field approved by the student's academic advisor. These courses may be taken credit/no credit.

Early Childhood Education

The Early Childhood Education Program provides teacher candidates with multiple opportunities to gain the knowledge, skills, and dispositions necessary to become effective decision makers in a multicultural society. In a sequential format, early childhood teacher candidates are inducted into the early childhood education core, proceed with a series of pre-methods courses, and engage in a sequence of field experiences that begin in the first semester of the Early Childhood Program.

General Education

The early childhood education major should fulfill the general education requirements of the University.

Professional Competencies

General education courses may be used to meet the following content competencies required for certification in Pennsylvania: literature and language, mathematics, speech, and English.

Professional Education Courses

The following courses are required of all early childhood education majors:

Professional Education Core (18 credits): ED 110, 121, 217, 225, ELED 327, and SPED 418.

Early Childhood Core (14 credits): ECH 235, 236, HPE 317, ECH 320, ECH/CSD 290

Early Childhood Block (15 credits): 322, 323, 325, 413, and HPE 410.

Elementary Block (12 credits): ELED 324, 325, 326, SCED 322.

Student Teaching (12 credits): ECH 424, 425

Related Electives

Early childhood education majors must earn sufficient credits to complete their degree (120).

Environmental Education

Sponsored by an interdisciplinary committee comprised of faculty from the Departments of Biology, Chemistry, Education, and Anthropology, Geography, and Earth Science, the certification in environmental education prepares teacher-educators to develop and implement in-school and outdoor education about the environment programs at both elementary and secondary levels. The Environmental Education Program is for non-degree certification only. It may be combined as a dual certification with one of the following areas: biology, earth and space science, elementary education, chemistry, or general science. The total semester hours needed to complete a dual certification program varies. Graduate students in some areas may also complete, concurrent with their master's program, the certification program by selecting appropriate courses by advisement. Application for admission to the program is through the dean, College of Education and Human Services. The required courses in the non-degree, certification only, program are as follows:

Education (21 credits): ED 110, 122, 217, 225, 327, 329, and SPED 418.

Science Foundations (31 credits): BIOL 155, 165, 156, 166, CHEM 153, 163, 154, 164, PH 251, ES 150 and 280.

Education About the Environment Specialization (15 credits): GEOG 115, ES 260, 270, BIOL 202, and SCED/BIOL 476/576.

Professional Core (15 credits): ED 403, 424, and 426.

Math Proficiency (three credits): MATH 221.

Secondary Education

Baccalaureate programs leading to certification in secondary education (7-12) are available in biology, chemistry, communication arts, earth science, English, French (K-12), general science, mathematics, physics, social studies, and Spanish (K-12). Each program is designed to provide students with a thorough foundation in the teaching specialty and with the professional skills needed to work effectively with adolescents in a variety of learning environments.

General Education

Secondary education students fulfill the general education requirements of the University. However, within certain majors there may be slight deviations from the pattern presented, and secondary students should check with the departmental office of the discipline in which they are majoring to ascertain any variations. Two college-level English (composition/literature) and math courses are required.

Professional Education Core Requirements (36 credits):

ED 110, 122, 217, 225, 327, 329, ED xxx (Methods in specific discipline), ED 424, 425, and SPED 418.

Secondary Certification Specialization

Secondary education majors may choose areas of specialization from the following programs. A grade of C or better is required for each course in the major area of specialization.

Biology (38 semester hours)

Required Courses: BIOL 155, 165, 156, 166, 201, 202, 203, 382, 476, CHEM 154, 164, 254, 264.

Electives (two required), BIOL 341 and 405 recommended. Prior to registration the student's advisor will approve courses taken as biology electives.

In meeting general education requirements, the distribution in natural sciences and mathematics may be met with supplemental courses from the field of specialization. It is recommended the quantitative reasoning requirement be met by MATH 221 and the mathematics competency be met by MATH 171 or higher. Students should note no more than one non-laboratory elective may be included in credits for the biology specialization. Proficiency in earth science, Physics I or II, also required.

Chemistry (42 semester hours)

Required: CHEM 151, 152, 161, 162, 251, 252, 257, 261, 262, 270, 271, 353, 354, 355, 358, 363, 364, 368, 453, 456, 463, and 470.

Additional Requirements: MATH 270, 271 and PH 251. Students who have taken CHEM 153 and 154 may be permitted, upon consideration of their performance, to substitute these courses for CHEM 151 and 152. A total of 30 semester hours in chemistry must be taken. Competency in biology and earth science also required.

Earth Science (33 semester hours)

Required: ES 150, 200, 222, 250, 270, 280, 476
10 credits in one of two specializations: Geology: ES 255, 260, 355, 360, 370; Planetarium Management: ES 201, SCED 485, COOP 497

SECONDARY EDUCATION CORE (31 credits)

Required: ED 110, 122, 327, 329, 334, 418, 424, 425; SCED 499

Supplemental Courses: CHEM 154/164, four credits from biology, chemistry, or physics.

Proficiencies: CHEM 153/163, PH 251 or 252, BIOL 155/165.

English (42 semester hours)

Required: ENG 199, 221, 222, 225, 226, 227 or 228, 262, 263, 355, 470, and 482.

Additional English requirements (nine credits):

One from: ENG 353, 457, 458, or 459.

Literature electives: six credits must be taken on the 300/400-course levels.

Non-print media competency is required.

Advanced writing competency is required.

French K-12 (33 semester hours)

Required (33 credits): FR 250 or 251 and 252, 265, 270, 281, 282, 301, 341, 342.

Supplemental Courses (six credits): ANTH 211 and ENG 457 or ENG 262.

Electives: Six credits to be approved by advisor (200 level above 252 and any 300 level French course).

Students participating in foreign study programs must complete at least six hours of French literature at Clarion, regardless of the number of credits earned abroad.

General Science (38 semester hours)

A program specifically designed to prepare students to teach science at the junior high or middle school level. General science majors are not prepared to teach specialized high school courses such as biology, chemistry, physics, or earth science. Likewise, biology, chemistry, or physics majors are not prepared to teach general science unless their college program is broadened to include all of the required science courses of the general science curriculum. Students who desire to teach only specialized courses should major in the specific subject area.

Required: BIOL 155, 165, 156, 166, 202, BIOL or ES 476 or CHEM 211, CHEM 153, 163, 154, 164, PH 251 or 252, ES 150, 200, 270, and 280, plus two 1-credit seminars.

Also Required: Proficiency in precalculus (MATH 171) and statistics (MATH 221 or 321); Successful completion of SCED 460 and 499.

Majors in general science should not include BIOL 111, MATH 112, PHSC 111, PHSC 112, and ES 111 in their general education programs. Only upon satisfactory completion of all basic courses in the general science curriculum will a biology, chemistry, physics, or earth science major be recommended for an Instructional I certificate in general science.

Mathematics (31-35 semester hours)

Required courses: MATH 270, 271, 272, 300, 321, 340, 357, 370, 390, 451, 49_, and MATH Elective (300 level or above).

Also Required: (6 credits) Junior High Strand: Math 111, 221 or Senior High Strand: Math elective (221, 285, above 300).

Electives: Prior to registration the student's advisor will approve courses taken as mathematics electives. Majors must select PH 258 and/or CHEM 151 or 152 instead of basic PHSC 111-112, which do not count toward graduation.

Concurrent certification in physics is possible with the election of PH 258, 268, 259, 269, 351, 352, 353, 354, 371, 372, 461. Students admitted into both programs should substitute ED 335 for 339.

Physics (38 semester hours)

Required: PH 258, 268, 259, 269, 351, 352, 353, 354, 371, 372, 461.

Electives: Electives (4) must be selected from; PH 301, 302, 355, 356, 357, 400, 455, 457, 460, 498, 499. Additional 12 credits in physics (300-level or higher).

Proficiencies in Other Related Areas: MATH 270, 271, 272, 350, CHEM 153, 163, BIOL and ES.

Social Studies (42 semester hours)

Social Studies Specialization: History Concentration (24 credits)

Required: History Concentration (24 credits), Political Science (six credits), Geography (six credits), ECON 211, 212, ANTH 211, PSY 211, SOC 211. Non-western culture competency (three credits)

Spanish K-12 (33 semester hours)

Required (33 credits): SPAN 270, 250 or 251 and 252, 265, 280 or 281 and 282, and 301, 352, 360

Supplemental Courses (6 credits): ANTH 211 and ENG 457 or ENG 262

Electives: Six credits to be approved by advisor. (200 level above 252 and any 300 level Spanish course)

Students participating in foreign study programs must complete at least six hours of Spanish or Spanish-American literature at Clarion, regardless of the number of credits earned abroad.

Early Childhood Education Courses

- ECH 231: CREATIVITY IN EARLY CHILDHOOD CURRICULUM** **3 s.h.**
 Explores the nature of creativity and its value in the growth of young children. Students develop and present various open-ended and child-centered projects for the enhancement of creativity and the creative whole learning experience using art, music, and movement. Students demonstrate how to guide young children in creative learning and expression through individual and group projects. Examines the creative process as a source of choosing content, planning lessons, organizing materials, and designing assignments to enable children to develop essential skills and attitudes for creativity. Prerequisites: ED 121. Each semester.
- ECH 233: PUPPETRY IN THE EARLY CHILDHOOD CURRICULUM** **1 s.h.**
 Participants learn the knowledge and skills necessary to implement the use of puppets in the Early Childhood classroom and to appreciate the power of puppets as a vehicle in developing creativity, imagination, and self-expression in children. Topics focus on play, the history of puppets, types of puppets, and the use of puppets in Early Childhood curriculum. As needed.
- ECH 235: OBSERVATION: CONSTRUCTING AN EARLY CHILDHOOD KNOWLEDGE BASE** **3 s.h.**
 Young children from birth to age eight are cared for and educated in diverse early childhood settings. Gives undergraduate students experience in using effective methods for observing young children's development, environments, interactions, and adaptations while constructing a wide early childhood knowledge base. Emphasizes developmentally appropriate practices and legal and ethical responsibilities. Directs students' participation with children of different age groups in a variety of early childhood settings through field-based/case study approaches. Includes one hour of class meetings with two-hour field placement per week. Prerequisite: ED 121 must be taken prior to or concurrently with this course. Each semester.
- ECH 236: ASSESSMENT AND PLANNING: USING AN EARLY CHILDHOOD KNOWLEDGE BASE** **3 s.h.**
 Young children from birth to age eight are cared for and educated in diverse early childhood settings. Gives undergraduate students experience in using effective methods for observing, assessing, and documenting young children's development for the purpose of planning appropriate programs, environments, interactions, and adaptations. Emphasizes developmentally appropriate practices and legal and ethical responsibilities. Directs students' participation with children of different age groups in a variety of early childhood settings through field-based/case study approaches. Includes two hours of class meetings with one-hour field placement per week. Prerequisites: ED 121, ECH 235. Each semester.
- ECH 240: NUTRITION AND THE YOUNG CHILD** **1 s.h.**
 Acquisition and appreciation of the role nutrition plays in the development of the young child. Students acquire knowledge, skills, and attitudes in planning nutritious meals and snacks. An awareness of the role of the family is emphasized. Offered on a two-year rotation.
- ECH/CSD 290: SPEECH, LANGUAGE, AND THE YOUNG CHILD** **3 s.h.**
 Emphasizes the language development of young children as a portion of their cognitive and social-emotional growth from birth to eight years of age. Provides a framework for observation of normally developing phonological, morphosyntactical, semantic, and pragmatic skills, in the young child as well as the documented changes which can be observed in the child with a language disorder. Focuses on the role cognitive, social-emotional, and linguistic factors play in the preliteracy and early literacy experience.
- ECH 320: DEVELOPMENTAL BASES FOR LEARNING AND TEACHING** **3 s.h.**
 Acquisition of understanding and appreciation of advanced child development for young children birth through eight years. Examines the physical, social, emotional, linguistic, and intellectual characteristics of children of diverse cultural backgrounds within and outside of the United States. Focuses on both typical and atypical development as well as challenging conditions. Prerequisites: ED 121, ECH 235, and ECH 236. Each semester.
- ECH 322: CURRICULUM BASES FOR LEARNING AND TEACHING** **3 s.h.**
 Focuses on developmentally appropriate curriculum design and implementation for infants, toddlers, and young children ages three to eight. Emphasizes the child's and the teacher's roles in designing, integrating, and adapting curriculum and the physical setting where the curriculum is implemented to meet the needs and interests of all young children including those with disabilities, developmental delays, or special abilities. Must be taken concurrently with ECH 323, 325, 413, and HPE 410. Prerequisites: ED 121, ECH 235, ECH 236, ECH/CSD 290, ECH 320. Each semester.
- ECH 323: LITERACY AND THE YOUNG CHILD** **3 s.h.**
 Emphasizes three areas: (1) promoting the understanding a learning environment should match how children develop and learn literacy, (2) creating an integrated curriculum framework for the birth through eight years that are linked to standards and benchmark competencies, and (3) enhancing the literacy development of children through appropriate interactions with families and caregivers. Must be taken concurrently with ECH 322, 325, 413 and HPE 410. Prerequisites: ED 121, ECH 235/236, ECH/CSD 290, and ECH 320. Each semester.
- ECH 325: YOUNG CHILDREN AS THEORY BUILDERS** **3 s.h.**
 Explores the process and learning environment that will support, facilitate, and translate course-content areas of science, mathematics, social studies, and technology into a developmentally appropriate constructivist educational practice. Applies theoretical perspective of constructivism to enhance the young child's scientific traits of experimentation, curiosity, creativity, and theory testing. Must be taken concurrently with ECH 322, 323, 413 and HPE 410. Prerequisites: ED 121, ECH 235, 236, ECH/CSD 290, and ECH 320. Each semester.
- ECH 413: LEADERSHIP IN EARLY CHILDHOOD SETTINGS** **3 s.h.**
 Explores knowledge and skills needed to be a leader in early childhood. Emphasis on developing and managing a caring learning environment that enhances positive interactions between children, parents, staff, instructional teams, and community members. Focuses on leadership skills in advocacy for families and educational and social systems, and other issues related to families and young children. Advocacy and ethics of professionalism are also explored. Must be taken concurrently with ECH 322, 323, 325, and HPE 410. Prerequisites: ED 121, ECH 235, 236, ECH/CSD 290, and, ECH 320. Each semester.

ECH 420: ISSUES AND ADVOCACY IN EARLY CHILDHOOD EDUCATION 3 s.h.

Examines incidental learning of children through their interactions with the people and society's major institutions. In-depth exploration of the family as a diverse and primary institution influencing children and the interface with the educational and social systems. Analyzes current issues and public policies as related to systems theory. Topics vary by semester. Emphasizes advocacy and ethics of professionals to help young children cope with issues that affect them and will contribute to institutional change to meet the needs of young children. Prerequisites: ECH 320, 322, 323, 325, 413, and HPE 410. Each semester.

ECH 424/425: EARLY CHILDHOOD STUDENT TEACHING 6 s.h.

Professional practicum requires integration and application of instructional, management, and professional knowledge and competencies in a school and agency setting. After an orientation to the school and agency setting, students teach under the direction of a cooperating professional and university supervisor. Two field assignments offer diversity in grade levels (N-K, 1-3), ability levels of pupils, content areas, school and community size, multicultural settings, and/or cooperating professionals. Prerequisites: Completion of 90 semester hours, satisfactory standing in admission and retention standards in the college, completion of all required professional courses in certification area with a minimum grade of C, a cumulative 2.8 QPA, and meeting university residence requirements. Beginning Fall 2005, all required PRAXIS tests must be passed before student teaching. Each semester.

Education Courses**ED 110: INTRODUCTION TO EDUCATION 3 s.h.**

Familiarizes students with education and the role of the school in a multicultural society. Covers historical and philosophical perspectives of education; school organization, governance, and finance; teaching and curriculum in a pluralistic society; and the implications of the schools as an agent for social change. Students explore their career commitment in terms of opportunities and requirements for teaching.

ED 121: HUMAN DEVELOPMENT AND LEARNING 3 s.h.

Acquisition of understanding and appreciation of the cognitive, social-emotional, ecological-systems, and physical-motor dimensions of human growth and changes (birth through adolescence). Emphasizes cultural influences on human growth and change with respect to cognition, learning theories, individual differences, personality, growth, abilities, and interests. Explores cross-cultural and multiethnic perspectives with respect to holistic development of children and adolescents; involvement with and observation of individuals at various levels of development. Each semester.

ED 122: EDUCATIONAL PSYCHOLOGY 3 s.h.

Examines instructional strategies and education environments in a multicultural society from the perspective of educational psychology. Emphasizes learning theory and student characteristics, including development and motivation as they impact on teacher decision-making. Considers inquiry techniques and statistics in developing empirical data and knowledge.

ED 217: MICROCOMPUTER APPLICATIONS IN THE CLASSROOM 3 s.h.

Introduces pre-service educators (K-12) to microcomputer technology and prepares them to use microcomputers as tools in their classroom. While acquiring computer skills, students explore, use, and demonstrate competence in each of the following areas: word processing, databases, spreadsheets, multimedia/hypermedia, CD-ROM, desktop publishing, software applications, instructional design, telecommunications, and major issues associated with the use of technology in education. Course complements students' specific areas of expertise.

ED 221: DEVELOPMENTAL READING 3 s.h.

Emphasizes improvement in rate, comprehension, reading taste, and independence in reading. Introduces students to varied sources of reading and numerous means of improving reading skills. Includes instruction in theory and an introduction to the possibilities of a supplementary mechanical program for reading improvement. Not recommended for students who have taken GS 100: College Reading/Study Skills.

ED 225: MULTICULTURAL EDUCATION 3 s.h.

Provides prospective teachers with a comprehensive understanding of the complexity of ethnic diversity and pluralism in the United States, and explores pluralism from a global perspective. Analyzes the goals, rationale, meaning, assumptions, and necessary school conditions for effective teaching and learning in multicultural multi-ethnic schools, fostering multicultural competencies and preparing prospective teachers for multicultural multi-ethnic classrooms. Emphasizes interpersonal and pedagogical skills needed for success of teacher and learner.

ED 327: INSTRUCTIONAL STRATEGIES AND MANAGEMENT 3 s.h.

Explores basic skills of planning, designing, implementing, and evaluating the teaching-learning and management process through a clinical approach to teaching. Focuses on teacher effectiveness research and its application to instructional strategies and materials, classroom and behavior management, and educational technology. Includes peer teaching and simulations as integral components of the course. Incorporates variety of instructional strategies: lecture, discussion groups, simulations, peer teaching, and group and individual analysis peer teaching experiences. For secondary education majors. Prerequisite: ED 122.

ED 328: METHODS OF TEACHING AND EVALUATING COMMUNICATION ARTS 3 s.h.

Prepares aspiring secondary school teachers in the methods of teaching such language-based subjects as speech, composition, literature, grammar, and reading, and in such language-related, communication-oriented activities as dramatics, journalism, yearbook production, and media use. Observations and teaching experiences in area schools are included. Prerequisite: ED 327. Fall, annually.

ED 329: EDUCATIONAL EVALUATION AND AUTHENTIC ASSESSMENT 3 s.h.

Examines construction, selection, administration, interpretation, and utilization of evaluation techniques and instruments, including statistical interpretations. Emphasizes analysis of standardized tests applicable to various content areas, as well as the construction and utilization of qualitative assessment techniques. Taken concurrently with the methods courses (block) for secondary education majors. Each semester.

to become successful classroom practitioners. Does not fulfill the student teaching requirement. Prerequisites: Recommendation of director of field services, university student teaching supervisor, Elementary/Secondary Block Committee, and/or Education Department chair. Completion of 90 semester hours, satisfactory standing in admission and retention standards in the college, completion of all required professional courses in certification area with a minimum grade of C, a cumulative QPA of 2.8, and meets university residence requirements. On demand.

- ED 421: MODERN LANGUAGES STUDENT TEACHING 6 s.h.**
Professional practicum requires integration and application of instructional, management, and professional knowledge and competencies in elementary and secondary school settings. After an orientation to the school setting, the student teaches under the direction of a cooperating professional and university supervisor. Two field assignments will offer diversity in grade levels K-12 ability levels of pupils, content areas, school and community size, multicultural settings, and/or cooperating professionals. Prerequisites: Completion of 90 semester hours, satisfactory standing in admission and retention standards in college, completion of all required professional courses in certification area with a minimum grade of C, a cumulative 2.75 QPA, and meeting university residence requirements. Each semester.
- ED 423: LIBRARY PRACTICE IN THE SECONDARY SCHOOL 6 s.h.**
Professional practicum requires integration and application of instructional, management, and professional knowledge and competencies in library settings in secondary schools. After an orientation to the school and library, the student participates in management, technical services, literary enrichment, and instructional activities under the direction of a cooperating professional and university supervisor.
- ED 424/425: SECONDARY STUDENT TEACHING 6 s.h.**
Professional practicum requires integration and application of instructional, management, and professional knowledge and competencies in library settings in secondary schools. After an orientation to the school and library, students participate in management, technical services, literary enrichment, and instructional activities under the direction of a cooperating professional and university supervisor. Two field assignments offer diversity in grade levels, ability levels of pupils, content areas, school and community size, multicultural settings, and/or cooperating professionals. Prerequisites: Completion of 90 semester hours, satisfactory standing in admission and retention standards in the college, completion of all required professional courses in certification area with a minimum of grade of C, a cumulative 2.8 QPA, and meeting university residence requirements. Beginning Fall 2005 all required PRAXIS tests must be passed before student teaching.
- ED 426: ENVIRONMENTAL EDUCATION STUDENT TEACHING 6 s.h.**
Professional practicum requires integration and application of instructional, management, and professional knowledge and competencies in an environmental education setting. After an orientation to the environmental education setting, the student will teach under the direction of a cooperating professional and university supervisor. Two field assignments will offer diversity in grade levels, ability levels of pupils, content areas, school and community size, multicultural settings, and/or cooperating professionals. Prerequisites: Completion of 90 semester hours, satisfactory standing in admission and retention standards in the college, completion of all required professional courses in certification area with a minimum grade of C, a cumulative 2.75 QPA, and meeting university residence requirements. Each semester.
- ED 432/433: STUDENT TEACHING IN MUSIC 6 s.h.**
Professional practicum requires integration and application of instructional, management, and professional knowledge and competencies in music settings in elementary, middle, and secondary schools. After an orientation to the school and music settings, students teach classes and participate in choral and instrumental music activities under the direction of a cooperating professional and university supervisor. Two field assignments offer diversity in grade levels K-12 ability levels of pupils, content areas, school and community size, multicultural settings, and/or cooperating professionals. Prerequisites: Completion of 90 semester hours, satisfactory standing in admission and retention standards in college, completion of all required professional courses in certification area with a minimum grade of C, a cumulative 2.8 QPA, and meeting university residence requirements. Beginning Fall 2005 all required PRAXIS tests must be passed before student teaching. Each semester.
- ED 434/534: WORKSHOP IN EDUCATION 3 s.h.**
Provides opportunities for in-service teachers to encounter new ideas, knowledge, and methods in meeting problems in today's schools. Prerequisite: Teaching experience in the elementary or secondary schools.
- ED 450: INDEPENDENT STUDY 1-3 s.h.**
Provides students with opportunity to explore an area of special need or interest in education in-depth, under the supervision of a member of the department. Students develop a proposed study plan and secure the approval of the proposed director and department chair before registration. Prerequisite: Junior or senior standing.
- ED 490: PROFESSIONAL SEMINAR IN SOCIAL STUDIES 1 s.h.**
Examines problems, practices, regulations, and other information relevant to social studies majors during their student teaching semester. Using a constructivist approach, students will reflect on and apply: federal and state law relevant to the work of student teachers and beginning teachers, student teaching objectives and educational objectives of student teaching centers, professional ethics, function of professional organizations, Praxis preparation, classroom management and conflict resolutions strategies. Prerequisite: Secondary block. Each semester.
- ED 499/599: SPECIAL TOPICS IN EDUCATION 1-3 s.h.**
Examines current topics and issues in education. Topics, announced in advance, focus on the needs and interests of educators.



Elementary Education Courses

ELED 250: *THE INTEGRATION OF AESTHETIC EXPERIENCES IN THE ELEMENTARY CURRICULUM* **3 s.h.**

Explores and applies theory, methods, and strategies for integrating aesthetic experiences with appropriate and relevant academic curriculum. Focuses on visual and performing arts, and performance-based assessment practices appropriate for the elementary classroom. Explores art media and materials related to aesthetic, critical, cultural, and historical experiences to achieve and understanding of the arts within the humanities. Required for elementary and elementary dual certification majors. Field experience component required. Prerequisites: ED 110 and 121. Each semester.

ELED 323: *TEACHING OF READING* **3 s.h.**

Overview of definitions and basic approaches in elementary school reading instruction. Familiarizes students with techniques, strategies, and materials used to teach reading to preschool, elementary, and middle school children from a variety of cultural backgrounds. Prerequisite: ED 121. Each semester.

ELED 324: *TEACHING ELEMENTARY SCHOOL MATHEMATICS* **3 s.h.**

Explores current topics recommended by the NCTM. Emphasizes a strong laboratory approach using a variety of concrete, manipulative, mathematical models to teach the mathematical concepts commonly found in grades K-8. Deals with trends in curriculum and with methods for diagnosing and presenting mathematical concepts and skills. Considers recent research that applies to teaching and learning mathematical skills and concepts. Relates and applies psychological theories to the selection and use of strategies, instructional materials, and diagnostic-prescriptive procedures. Prerequisite: MATH 111. Each semester.

ELED 325: *TEACHING ELEMENTARY SCHOOL SOCIAL STUDIES* **3 s.h.**

Coordinates theory and practice in the teaching of elementary school social studies. Provides a historical perspective, and examines current research, curriculum programs and trends, and methods and materials applicable to unit type social studies teaching in a pluralistic society. Emphasizes the development, selection, management, and evaluation of materials and experiences that foster concept development, inquiry, and critical thinking in social studies. Considers addressing the needs of diverse student populations, integration of content areas, addressing state and national standards, and applications of technology. Prerequisite: ED 327. Each semester.

ELED 326: *READING PROBLEMS IN THE ELEMENTARY SCHOOL* **3 s.h.**

Explores best practice procedures as recommended by the International Reading Association in providing concepts and skills needed by the elementary classroom teacher to identify and teach students with reading problems. Emphasizes creating effective reading/literacy lessons to meet individual needs of students and to communicate with parents and other professionals. Prerequisite: ELED 323. Each semester.

ELED 327: *INSTRUCTIONAL STRATEGIES AND MANAGEMENT* **3 s.h.**

Explores basic skills of planning, designing, implementing, and evaluating the teaching-learning and management process through a clinical approach to teaching. Focuses on teacher effectiveness research and its application to instructional strategies and materials, classroom and behavior management, and educational technology. Includes peer teaching and simulations as integral components of the course. Incorporates a variety of instructional strategies: lecture, discussion groups, simulations, peer teaching, and group and individual analysis of peer teaching experiences. For elementary education students. Prerequisite: ED 121.

ELED 329: *EDUCATIONAL EVALUATION AND AUTHENTIC ASSESSMENT* **3 s.h.**

Examines construction, selection, administration, interpretation, and utilization of evaluation techniques and instruments, including statistical interpretations. Emphasizes analysis of standardized tests applicable to various content areas, as well as the construction and utilization of qualitative assessment techniques. This course, for elementary education students, is taken prior to the methods courses (block(s)). Prerequisites: ELED 327, admission to certification program. Each semester.

- ELED 330:** *LANGUAGE ARTS IN THE ELEMENTARY CLASSROOM* **3 s.h.**
 Reflects an integrated approach for teaching language arts via an integrated curriculum. Mirrors the constructivist approach to teaching. Bases teaching strategies on cognitive, psycholinguistic, and sociolinguistic theories of how children learn-how they learn language, in particular. Applies strategies through language modes of listening, speaking, reading, writing, and visual literacy. Assessment of the language arts modes focuses on performance, product, and process focused approaches. Prerequisite: ED 327. Each semester.
- ELED 331:** *CHILDREN'S LITERATURE* **3 s.h.**
 Surveys children's literature emphasizing development of a knowledge base of the various genres in this discipline, including multi-ethnic. Focuses on the historical background, the development of literature for children, evaluation and selection criteria for various genres, and the most recent areas of expansion in children's literature. Applies knowledge base in the various content area methods courses. Each semester.
- ELED 423:** *LIBRARY PRACTICE IN THE ELEMENTARY SCHOOL* **6 s.h.**
 Professional practicum requires integration and application of instructional, management, and professional knowledge and competencies in library settings in elementary schools. After an orientation to the school and library, the student participates in management, technical services, literary enrichment, and instructional activities under the direction of a cooperating professional and university supervisor.
- ELED 424/425:** *ELEMENTARY STUDENT TEACHING* **6 s.h.**
 Professional practicum requires integration and application of instructional, management, and professional knowledge and competencies in school settings. After an orientation to the school setting, students teach under the direction of a cooperating professional and university supervisor. Two field assignments offer diversity to grade levels (K-3, 4-6), ability levels of pupils, content areas, school and community size, multicultural settings, and/or cooperating professionals. Prerequisites: Completion of 90 semester hours, satisfactory standing in admission and retention standards in the college, completion of all required professional courses in certification area with a minimum grade of C, a cumulative 2.8 QPA, and meeting university residence requirements. Beginning Fall 2005 all required PRAXIS tests must be passed before student teaching. Each semester.

Science Education Courses

- SCED 322:** *THE TEACHING OF ELEMENTARY SCIENCE* **3 s.h.**
 Examines methods of presenting science in the elementary school. Provides experiences in learning process, scope and sequence of science concepts, methods of investigation, problem solving, laboratory skills, scientific attitudes, newer curricula, reading materials, observing and working with elementary school children, and developing, teaching, and evaluating lessons. Two hour lecture and two hours laboratory weekly. Each semester.
- SCED 456:** *ELECTRONICS FOR THE HIGH SCHOOL SCIENCE TEACHER* **4 s.h.**
 Intended for the science teacher who has had a little or no previous course work in physics or mathematics. Covers the fundamental law of electricity and magnetism, alternating current theory, and the theory and practical application of such devices as ammeters, voltmeters, oscilloscopes, vacuum tubes, transistors, power suppliers, amplifiers, and oscillators. Examples of some of these devices will be built in the laboratory, and general procedures for trouble-shooting faulty equipment will be illustrated. Summer only, on demand.
- SCED 460:** *SCIENCE CURRICULA IN THE MIDDLE AND JUNIOR HIGH SCHOOL* **3 s.h.**
 Acquaints students with modern science curricula for the junior high/middle school levels. Stresses recent developments in curricula objectives, science content, teaching strategies, and laboratory activities. Individual projects included. Annually.
- SCED 463:** *ASTRONOMY : OBSERVATION AND FIELD STUDIES* **3 s.h.**
 Examines experimental tools and methods useful in astronomy. Concentrates on mastery of important techniques and concepts by a "do-it-yourself" process, not an encyclopedic survey of astronomy. Complements courses in descriptive astronomy (ES 200 and 201 and SCED 550) rather than duplicating them, serving much the same purpose as a laboratory in astronomy. The student will build simple telescopes, spectroscopes, and other astronomical instruments. Summer only, on demand.
- SCED 466:** *FIELD PHOTOGRAPHY* **3 s.h.**
 Teaches students how to use a modern camera and accessories to photograph subjects in the field. Includes techniques of close-up, telephoto, and wide-angle photography as well as lighting and composition. Provides students with opportunities to learn and practice techniques for photographing such objects as small animals, birds, flowers, large animals, and develop lessons for incorporating photography into science classrooms. Students provide digital camera. Summers only, on demand.
- SCED 499:** *SCIENCE STUDENT TEACHING SEMINAR* **1 s.h.**
 All biology, earth science, and general science student teachers are required to meet for this seminar. Students must participate in small group discussions by asking questions that have arisen during the time since the last seminar and to share some of the practical techniques and ideas they have discovered. Students evaluated as to their willingness to seek out answers to their personal questions and to stimulate their peers with provocative questions and practical solutions. Prerequisite: Concurrent with student teaching.
- SCED 576/**
BIOLIES 476: *SCIENCE, TECHNOLOGY, AND SOCIETY: TOPICS FOR TEACHERS* **3 s.h.**
 Interdisciplinary course covering topics in biology, earth science, chemistry, and physics. Acquaints students with information, curricula, and teaching methodologies appropriate for teaching STS topics in traditional science courses. Students will be involved in studies and hands-on activities concerning science computer software, testing water for chemical and biological agents, and remote sensing techniques in geology, geography, physics, and medicine. Students investigate and discuss ethical issues and scientific principles concerning computers, energy, nuclear waste, biotechnology, and others. Participants will develop curriculum activities for implementation in their science discipline. Required course for environmental biology, general science, and earth science certification. Prerequisite: Junior standing. Annually.



Health and Physical Education

Department of Health and Physical Education,

William English, Ph.D., chair

104 Tippin Gymnasium

Telephone: 393-2371

E-mail address: wenglish@clarion.edu

Website: www.clarion.edu/departments/hpe

Associate Professors: Baschnagel, English, Truitt-Bean

Assistant Professors: Davis, Shannonhouse

Through its general education courses, the department provides students with extensive opportunities to develop sound health habits and life-long skills in a variety of sports and other physical activities. The department offers a liberal studies degree with concentrations in health promotion/wellness, athletic coaching, and sport management programs. Students are able to receive a nationally accredited minor or verification in athletic coaching or a minor in sports management.

ACTIVITY AND RECREATION COURSES (PERSONAL PERFORMANCE)

HPE 102	Credit for Athletic Participation.....	1
HPE 121	Walking for Fitness	1
HPE 123	Relaxation Skills for Health and Fitness.....	1
HPE 125	Introduction to Bicycling	1
HPE 131	Beginning Swimming	1
HPE 135	Aqua-Aerobics	1
HPE 141	Badminton	1
HPE 142	Bowling	1
HPE 143	Golf	1
HPE144	Racquetball (men's rules)	1
HPE 145	Racquetball (women's rules)	1
HPE 147	Beginning Tennis	1
HPE 150	Canoeing	1
HPE 161	Basketball (men's rules)	1
HPE 162	Basketball (women's rules)	1
HPE 163	Volleyball (men's rules)	1
HPE 164	Volleyball (women's rules)	1
HPE 170	Step Aerobics Challenge	1
HPE 181	Adapted Physical Education	1
HPE 185	Physical Fitness and Conditioning	1
HPE 186	Physical Fitness Through Strength	1

	Training	1
HPE 191	Camping and Outdoor Recreation	1
HPE 230	Basic Water Safety—Emergency Water Safety	1
HPE 231	Intermediate Swimming	1
HPE 247	Intermediate Tennis	1
HPE 330	Lifeguard Training	1

HEALTH AND FIRST AID COURSES

HPE 111	Health Education	2
HPE 235	Introduction to Elementary Health Concepts and Promotion	3
HPE 314	Cardiopulmonary Resuscitation	1
HPE 317	First Aid and Safety	2
HPE 333	Fitness for Wellness	3
HPE 334	Food, Fitness, and Weight Management	3
HPE 335	Teaching Methods in the Elementary Curriculum	1

ELEMENTARY MAJOR COURSES

HPE 323	Curriculum and Methods in Elem. Phys. Ed. ...	3
HPE 410	Motor Development and Learning	3

Athletic Coaching Program and National Certification Level III

The athletic coaching verification program and the athletic coaching minor are specialized curricula established for individuals who intend to coach in interschool programs, youth sport or community recreation programs. It is not a degree program in physical education, but rather a specialized curriculum designed to provide those interested in coaching with a fundamental, educationally sound basis from which to pursue their goals.

The minimum requirements for the athletic coaching program (VERIFICATION) is 13 credits, and 18 credits for a successful completion of the nationally accredited level III athletic coaching certification program (MINOR).

ATHLETIC COACHING VERIFICATION 13 credits

This option is designed for those students wishing to have athletic coaching as their Area of Emphasis.

Required:

HPE 406	Athletic Injuries: Prevention, Recognition, and Evaluation	4
HPE 407	Physiological Foundations of Coaching	3
HPE 408	Principles and Problems of Athletic Coaching	3
HPE 409	Kinesiological Foundations of Coaching	3

NATIONAL CERTIFICATION IN ATHLETIC COACHING

LEVEL III /MINOR 18 credits

Required: Must include the courses above for the Athletic Coaching Verification plus **one** of the following theory and techniques courses:

HPE 351	Theory and Techniques of Coaching Basketball	2
HPE 352	Theory and Techniques of Coaching Baseball and Softball	2
HPE 354	Theory and Techniques of Coaching Football	2

Required Athletic Coaching Field Experience:

COOP 444	Athletic Coaching Internship	3
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LIBERAL STUDIES CONCENTRATION IN

HEALTH PROMOTION/WELLNESS 13 credits

A minimum of 39 credits must be at or above the 300 level.

Total credits required: 72.

- HPE 111 Health Education2
- HPE 186 Physical Fitness Through Strength Training...1
- HPE 220 Personal Health Promotion and Behavioral Management3
- HPE 317 First Aid and Safety2
- HPE 333 Fitness for Wellness3
- HPE 334 Food, Fitness, and Weight Management3
- PSY 111 Psychology of Personal Growth.....3
- PSY 211 General Psychology3
- PSY 220 Human Sexuality.....3
- CIS 217 Applications of Microcomputers3
- COOP 454 Health Promotion/Wellness Internship ... 1-12



Sports Management Minor

The Sports Management Minor is a specialized curricula developed to provide students with the knowledge and skills specifically applicable to sports and recreation organizations. With the emphasis on a health conscious society today, there is a growing need to have individuals capable of efficiently and effectively managing a variety of sport facilities ranging from YMCAs to fitness clubs. Furthermore, Clarion has made it possible to complete the Sports Management Program as a supplement to your choice of an academic major in any field. The minimum requirements for the Sports Management Minor are 21 credits.

SPORTS MANAGEMENT MINOR21 credits

Required:

- ACTG 201 Intro to Accounting Survey3
- ECON 175 Economics of Free Enterprise and Public Policy3
- SOC 410 Sociology of Sports.....3
- OR**
- HPE 380 Fundamentals of Sport in American Society3
- HPE 408 Principles and Problems of Athletic Coaching3
- HPE/
- MGMT 430 Sports Management3
- HPE 440 Sports Facility and Event Management3
- COOP 447 Co-op Experience

Active Military Service

The university grants a maximum of four credits in HPE for active military service of four months or more with honorable discharge or continued reserve status. Credit is normally given for HPE 111 (two credits) and two HPE activity courses of one credit each. To ensure credit is granted, students should bring an honorable discharge document to the Office of the Registrar, 122 Carrier.

Health and Physical Education Courses

Activity and Recreation Courses

The following activity courses are offered for fulfillment of the general education requirement. Courses emphasize the fundamental techniques, strategy, and rules of the activity.

- HPE 102: CREDIT FOR ATHLETIC PARTICIPATION 1 s.h.**
The student athlete must complete the full season of athletic participation in good standing with the student's varsity athletic program. Eligibility to register for this credit is not permitted until a student's second season of team participation.
- HPE 121: WALKING FOR FITNESS 1 s.h.**
Develop cardiorespiratory endurance through vigorous walking within individual target heart rate guidelines. Covers physical fitness principles, heart risk factors, body composition, and nutrition.
- HPE 123: RELAXATION SKILLS 1 s.h.**
Emphasizes the science, philosophy, and practice of psycho physiological regulation skills. Meditation and yoga are the foundation skills supported by progressive relaxation, autogenic training, diaphragmatic breathing, Qi Gong and others.
- HPE 125: INTRODUCTION TO BICYCLING 1 s.h.**
Emphasizes proper fit of bike to rider, skills, and techniques of riding, basic bike maintenance, and aerobic fitness. Bicycles provided, helmet required. Each semester.
- HPE 131: BEGINNING SWIMMING 1 s.h.**
For students who cannot swim one length of the pool. Consists of drown-proofing and elementary back, breast, and freestyle strokes.

HPE 135:	AQUA AEROBICS	1 s.h.
	Achieves various aspects of physical fitness in a water medium.	
HPE 141:	BADMINTON	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 142:	BOWLING	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 143:	GOLF	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 144:	RACQUETBALL (MEN'S RULES)	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 145:	RACQUETBALL (WOMEN'S RULES)	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 147:	BEGINNING TENNIS	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 150:	CANOEING	1 s.h.
	Explores the skills of the paddling strokes and involves the nomenclature of modern canoes and equipment. Includes rescue techniques and how to plan a river trip.	
HPE 161:	BASKETBALL (MEN'S RULES)	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 162:	BASKETBALL (WOMEN'S RULES)	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 163:	VOLLEYBALL (MEN'S RULES)	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 164:	VOLLEYBALL (WOMEN'S RULES)	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 170:	STEP AEROBICS CHALLENGE	1 s.h.
	Expands the student's understanding of overall fitness. Students utilize step benches to obtain cardiovascular conditioning and hand weights to strengthen muscles and improve endurance. Each semester.	
HPE 181:	ADAPTED PHYSICAL EDUCATION	1 s.h.
	Modified or corrective physical education course for those who by reason of illness or disability are unable to participate in the more vigorous forms of physical education activities. On demand.	
HPE 185:	PHYSICAL FITNESS AND CONDITIONING	1 s.h.
	Enables students to develop a fitness and conditioning program to fit their individual needs through knowledge gained in areas such as nutrition, use of conditioning equipment, weight control, and fitness tests.	
HPE 186:	PHYSICAL FITNESS THROUGH STRENGTH TRAINING	1 s.h.
	Covers all basic weight lifting techniques and modern principles for developing and improving an aerobic fitness for both male and female students.	
HPE 191:	CAMPING AND OUTDOOR RECREATION	1 s.h.
	Offers practical experience in the basic skills necessary for a successful camping excursion following conservation practices and techniques that retain the beauty of the wilderness ecosystems.	
HPE 230:	BASIC WATER SAFETY – EMERGENCY WATER SAFETY	1 s.h.
	Students must demonstrate advanced swimming skills. Designed for participants to become familiar with the hazards of water activities, to prevent accidents, and to respond effectively if an accident does occur. Successful completion of the course leads to Red Cross Certification.	
HPE 231:	INTERMEDIATE SWIMMING	1 s.h.
	Multi-stroke refinement, drown-proofing, and physical conditioning through swimming. Prerequisite: Students should be able to swim one length of the pool.	
HPE 247:	INTERMEDIATE TENNIS	1 s.h.
	Emphasizes fundamental techniques, strategy, and rules.	
HPE 330:	LIFEGUARD TRAINING	1 s.h.
	Successful completion leads to Red Cross Certification. Prerequisite: Swim 500 yards continuously, using four different strokes, dive to a depth of nine feet, and bring up a 10-pound object, and tread water for one minute.	

Athletic Coaching Program Courses

The program is designed for all students. Non-education majors have found the program to be an excellent alternative to their areas of concentration. Any student with an interest in any related future field in fitness, athletics, health, physiology, health clubs, and equipment will find the program an additional dimension to their undergraduate major.

The minimum requirements for the athletic coaching program (VERIFICATION) is 13 credits, and 18 credits required for a successful completion of the nationally accredited level III athletic coaching certification program (MINOR).

- HPE 406:** *ATHLETIC INJURIES: PREVENTION, RECOGNITION, AND EVALUATION* **4 s.h.**
Presents the latest information on prevention, recognition, and evaluation of athletic injuries. Students learn to coordinate appropriate emergency care as well as establish a professional working relationship with the qualified medical personnel who assist an injured athlete's recovery. Students earn an American Red Cross AED/CPR certification upon successful completion of the course.
- HPE 407:** *PHYSIOLOGICAL FOUNDATIONS OF COACHING* **3 s.h.**
Study of the basic scientific principles of physiology and how they can be applied to conditioning programs for the athlete. Covers all phases of physical training, along with evaluation of modern training devices. Spring, annually.
- HPE 408:** *PRINCIPLES AND PROBLEMS OF ATHLETIC COACHING* **3 s.h.**
A study of modern techniques and practices used in the organizational procedure of athletic programs. Covers major problem areas such as practice and game organization, purchase and care of equipment, budget and finances, public relations, legal liability, drug abuse, and sports psychology. Analyzes modern trends and issues in athletics as well as various philosophical views of athletics as a part of the educational curriculum. Fall, annually.
- HPE 409:** *KINESIOLOGICAL FOUNDATIONS OF COACHING* **3 s.h.**
Helps coaches increase their understanding of basic scientific information concerning athletic movement by utilizing the conceptual approach. Examines three main areas of study: applied anatomy, the production of motion, and application. Applies scientific principles to athletic skills to aid in the coaching and teaching of skills. Spring, annually.
- HPE 351, 352, 354:** *THEORY AND TECHNIQUES OF COACHING*
Examines theories and techniques of coaching specific sports. Covers rules and regulations, fundamentals, organizational principles, specific conditioning programs, scouting, technical tactics and other topics.
- HPE 351:** *THEORY AND TECHNIQUES OF COACHING BASKETBALL* **2 s.h.**
Fall, even numbered years.
- HPE 352:** *THEORY AND TECHNIQUES OF COACHING BASEBALL AND SOFTBALL* **2 s.h.**
Fall, odd numbered years.
- HPE 354:** *THEORY AND TECHNIQUES OF COACHING FOOTBALL* **2 s.h.**
Fall, odd numbered years.

Students interested in completing a concentration in athletic coaching should choose at least one of the above theory and technique courses or one of the following electives:

Sports Management Program Courses

Students pursuing a sports management minor at Clarion University will likely pursue entry-level jobs in the field or use the minor as a stepping-stone to graduate programs in sports management. Additionally, the skills and knowledge acquired in the program are applicable in many other industries. The minimum requirements for the sports management minor are 21 credits.

- *ACTG 201:** *INTRODUCTORY TO ACCOUNTING SURVEY* **3 s.h.**
- *ECON 175:** *ECONOMICS OF FREE ENTERPRISE AND PUBLIC POLICY* **3 s.h.**
*Majors in the college of Business Administration are not required to take ACTG 201 and ECON 175.
- SOC 410:** *SOCIOLOGY OF SPORT - OR - HPE 380* **3 s.h.**
- HPE 380:** *SPORTS IN AMERICAN SOCIETY* **3 s.h.**
Covers the role of sports in American society. Includes examination of the fundamental changes in the organization, rules, management, finances, and ethos of sports. Also examines the social, cultural, economical, philosophical, and anthropological foundations that have shaped American sport. Every other semester.
- HPE 408:** *PRINCIPLES AND PROBLEMS OF ATHLETIC COACHING* **3 s.h.**
Helps coaches increase their understanding of basic scientific information concerning athletic movement by utilizing the conceptual approach. Examines three main areas of study: applied anatomy, the production of motion, and application of force. Applies scientific principles to athletic skills to aid in the coaching and teaching of skills. Spring, annually.
- HPE/MGMT 430:** *SPORT MANAGEMENT* **3 s.h.**
Provides students with an understanding of how the principles and concepts of management theory can be applied to sports administration. Prerequisite: MGMT 320 or permission of instructor. Every other semester.
- HPE 440:** *SPORTS FACILITY AND EVENT MANAGEMENT* **3 s.h.**
Designed to assist the sport management student in acquiring necessary knowledge and skill needed to manage a sport facility and to plan a variety of sports events and programs. Spring, annually.
- COOP 447:** *SPORT MANAGEMENT CO-OP EXPERIENCE* **3 s.h.**

Elementary/Early Childhood Major Courses

- HPE 223:** *PHYSICAL EDUCATION FOR ELEMENTARY MAJORS* **1 s.h.**
Emphasizes modern physical education skills and activities of the elementary child.
- HPE 323:** *TEACHING HEALTH AND WELLNESS IN THE ELEMENTARY SCHOOLS* **3 s.h.**
Required of all students majoring in elementary education. The class focuses on strategies for promoting the health of children both inside and outside the educational setting. Students will learn the importance of promoting a healthy lifestyle within the young and the importance of advocating for a healthy environment in which all children and adults may flourish. Students will plan learning activities to enhance the health knowledge, skills, attitudes, and experience of young children. Included are labs and field experiences in an elementary school setting.
- HPE 410:** *MOTOR DEVELOPMENT AND LEARNING* **3 s.h.**
Provides understanding of motor development and motor learning and how motor activities enhance the total development of young children. Emphasizes the design and implementation of open-ended, developmentally appropriate movement activities to stimulate problem solving and to be the cornerstone of an integrated curriculum. Additional focus on assessment of motor development and motor learning environments. Must be taken concurrently with ECH 320, 322, 323, 325, and 413. Prerequisites: ED 121, ECH 231, and ECH 235. Each semester.

Notice: Contact the HPE chair for any updates/changes to the HPE curriculum.

Health and First Aid Courses

- HPE 111:** *HEALTH EDUCATION* **2 s.h.**
Focuses on wellness and health promotion. Emphasizes healthy behaviors in each of the five "Dimensions of Health" (mental, physical, social, emotional, environmental). Stresses skills and application of health knowledge for optimum wellness and disease prevention. Requirement for all students.
- HPE 220:** *PERSONAL HEALTH PROMOTION AND BEHAVIORAL MANAGEMENT* **3 s.h.**
Directs students to assess their personal wellness in each of the seven dimensions. The course explores variables contributing to personal excellence and wellness and completion of a behavioral change project.
- HPE 235:** *INTRODUCTION TO ELEMENTARY HEALTH CONCEPTS AND PROMOTION* **3 s.h.**
Introduces elementary education majors to basic health concepts and issues which elementary students face and which are important for developing an appropriate understanding of health education today. Fall, annually.
- HPE 314:** *CARDIOPULMONARY RESUSCITATION* **1 s.h.**
Follows the recommendations and guidelines of the American Red Cross. Students earn an American Red Cross CPR Certificate upon successful completion of the course.
- HPE 317:** *FIRST AID AND SAFETY* **2 s.h.**
Explores responsibilities and duties of the teacher in the development and teaching of programs in first aid and safety that are related to the student's school and community. Includes the American Red Cross Standard First Aid Course.
- HPE 323:** *TEACHING HEALTH AND WELLNESS IN THE ELEMENTARY SCHOOLS* **3 s.h.**
Required of all students majoring in elementary education. The class focuses on strategies for promoting the health of children both in and outside the educational setting. Students will learn the importance of both promoting a healthy lifestyle within the young and the importance of advocating for a healthy environment in which all children and adults may flourish. Students will plan learning activities that will enhance the health knowledge, skills, attitudes, and experience of young children. Included are labs and field experiences in an elementary school setting.
- HPE 333:** *FITNESS FOR WELLNESS* **3 s.h.**
Provides students with knowledge, strategies, and skills in health-related fitness and stress management. Focuses on practical experience in exercise design and assessment and psychophysiological regulations. Emphasizes recognition, identification, and remediation of pitfalls to adherence. Prerequisite: HPE 111. Fall, annually.
- HPE 334:** *FOOD, FITNESS AND WEIGHT MANAGEMENT* **3 s.h.**
Provides students with knowledge, strategies, and skills regarding the management of one's diet both qualitatively and quantitatively. Emphasizes the skills of personal dietary design and assessment for weight management and optimum health. Gives attention to the dietary needs and problems of special populations. Prerequisite: HPE 111. Spring, annually.
- HPE 335:** *TEACHING METHODS IN THE ELEMENTARY HEALTH CURRICULUM* **1 s.h.**
Designed for the elementary education major who may eventually work in a classroom setting. Prepares potential teachers to: (a) teach health education in a knowledgeable and effective manner, (b) demonstrate approaches for integrating health instruction with other topics, and (c) familiarize the elementary major with current health curricula. Course offered on demand.
- HPE 415:** *HIV/AIDS EDUCATION* **3 s.h.**
Experience-based course covers both the facts and the emotional issues involved in teaching about HIV infection. Psychosocial issues covered by the course include values, attitudes, and beliefs and their effects on teaching and learning about HIV, drugs and drug use, and sex and sexuality. Emphasizes helping students develop the skills needed to make AIDS presentations with a non-judgmental perspective and sensitivity to the cultural diversity in their communities. Upon successful completion of the course, students are Red Cross certified to present facts, answer questions, and identify resources for people who want more information on HIV infection, including AIDS. Prerequisite: HPE 111 or permission of the instructor. Course offered on demand.



Library Science

**Department of Library Science,
Bernard Vavrek, Ph.D., chair**

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Professors: Harhai, Miller, Vavrek
Associate Professors: Maccaferri, Reid
Assistant Professor: Doku, Krueger

Library science is a dynamic field that makes use of a wide variety of traditional and emerging technologies to meet the world's information needs. Librarians and other information professionals work in a variety of institutional settings, including school library media centers, public libraries, academic libraries, and special libraries (including business, government, law, and medical libraries). The demand for school library media specialists is especially high at present. Students learn how to acquire, organize, and provide access to information in all formats while gaining experience with a wide variety of information systems and developing advanced database search skills. While baccalaureate students are eligible for Pennsylvania school library media certification and/or provisional certification as a public librarian, most professional library positions require a masters degree from an institution accredited by the American Library Association (ALA).

Clarion University has offered undergraduate library education since 1937 and is one of only three universities in Pennsylvania to offer an ALA-accredited masters degree—permitting students in any degree program to progress from a bachelor degree to a masters degree without changing universities. Faculty represent a variety of specializations, including school media librarianship, public librarianship, reference services, organization of information, and information technology. Students have

ready access to a variety of advanced information systems in the department's computer laboratory. Many courses feature early field experiences, and students can gain additional pre-professional experience through membership in Lambda Sigma, Clarion's honorary library science fraternity, and in student chapters of both the American Library Association and the Special Librarian Association.

The Department of Library Science offers one undergraduate major, participates in one dual major, and offers one concentration. The primary focus of the department's undergraduate program is the preparation of students for careers as school library media specialists. In this respect, the department plays a unique role within the commonwealth: it is one of only three institutions of higher education in Pennsylvania providing undergraduate school library media certification; it is the only such institution in western Pennsylvania; and it is the only institution in Pennsylvania providing both graduate and undergraduate school library media certification programs.

The Bachelor of Science in Education in Library Science degree program is a 120-credit major that prepares students for Pennsylvania School Library Media Certification, grades K-12. The program emphasizes field experiences and the use of advanced information technology. Pennsylvania School Library Media Certification, K-12, also is valid for initial certification in more than 40 other states. The following courses are required:

PROFESSIONAL EDUCATION COURSES 36 credits		
ED	110	Introduction to Education .....3
ED	122	Educational Psychology .....3
ED	217	Application of Microcomputers .....3
ED	225	Multicultural Education .....3
ED	327	Instructional Strategies and Management .....3
ED	329	Educational Evaluation .....3
ELED	323	Teaching of Reading .....3
ED	423	Library Practice/Secondary S.T. ....6
ELED	423	Library Practice/Elementary S.T. ....6
SPED	418	Exceptionalities in the Regular Classroom .....3

LIBRARY SCIENCE SPECIALIZATION 27 credits		
LS	255	Introduction to Librarianship .....3
LS	257	Basic Information Sources and Services..... 3
LS	258	Selection of Library Materials .....3
LS	356	Media for Young Adults .....3
LS	357	Organization of Information .....3
LS	358	Media for Children .....3
LS	361	Administration of Libraries .....3
LS	385	Automation in the Library Media Center .....3
LS	459	Media, Methods, and Curriculum .....3

Students must also complete 18 credits of liberal arts electives. All library science specialization courses must be completed prior to student teaching.

Elementary and Secondary education majors may elect to pursue a double major in library science. The B.S.Ed. in Library Science/Elementary Education requires a total of 134 credits. The number of credits required for a dual

secondary education/library science major varies depending on the secondary certification specialization. In addition to the requirements for their elementary education or secondary education major, students complete 27 credits of library science specialization courses, plus 12 credits of student teaching.

Early Field Experience

The library science early field experience is a combination of intensive course work and field experience taken the Fall Semester prior to student teaching. Students enroll in prescribed courses and spend approximately 60 hours during three weeks in school library media centers. The prescribed early field experience course is

LS 459 Media, Methods, and the Curriculum

Students are encouraged to take LS 361 as part of the early field experience in semesters in which it is offered. Students will also benefit from taking a 300-level education course in conjunction with these library science courses.

Any student who completes a prescribed set of credits in Library Science can qualify for certification as a provisional public librarian in Pennsylvania.

The entry-level degree for most professional positions in libraries and information centers is a master's degree accredited by the American Library Association. The department's Master of Science in Library Science



(M.S.L.S.) Program is one of only 56 such programs in North America. While no specific undergraduate preparation is required for admission into the M.S.L.S. Program, all prospective students are advised to develop their computer skills. Good written and oral communication skills also are critical.

Library Science Courses

- LS 255:** *INTRODUCTION TO LIBRARIANSHIP* **3 s.h.**
Broad overview of libraries and the profession of librarianship beginning with the history of libraries and concluding with the impact of electronic technology on libraries. Annually.
- LS 257:** *BASIC INFORMATION SOURCES AND SERVICES* **3 s.h.**
Examines traditional and technological approaches to locating information. Analyzes the criteria for selecting reference materials and examines reviewing media for new reference sources. Explores the organization of reference service. Includes the study of selected reference sources. Biennially.
- LS 258:** *SELECTION OF LIBRARY MATERIALS* **3 s.h.**
Provides familiarity with basic bibliographical tools, including current reviewing media and traditional and electronic publishing. Examines policies and criteria for the selection of and evaluation of book and nonbook resources. Biennially.
- LS 356:** *MEDIA FOR YOUNG ADULTS* **3 s.h.**
Examines literature and other resources for young adults, including principles related to the selection, evaluation, and use of such materials. Considers and analyzes the reading interests of teenagers, the characteristics of young adult literature, and methods of introducing young adults to books and nonbook resources, including electronic products and services. Examines techniques of developing/preparing booktalks, reviews, reader advisory services, and other programs for young adults, with attention being paid to underserved and special needs groups. Prerequisite: LS 258 or permission of instructor. Biennially.
- LS 357:** *ORGANIZATION OF INFORMATION* **3 s.h.**
Examines the organization of information, principles and methods of descriptive cataloging, and the structure and application of the Dewey Decimal Classification, Sears List of Subject Headings, and Library of Congress Subject Headings. Covers the creation, maintenance, and use of manual and automated library catalogs. Biennially.
- LS 358:** *MEDIA FOR CHILDREN* **3 s.h.**
Surveys children's literature and related materials. Examines the principles of selection and evaluation of books, periodicals, and other materials for children. Includes reading guidance, with attention to materials for special groups; development of general and subject bibliographies; preparation of annotations; techniques of story-telling; and the selection of materials for the story hour. Includes a required field experience. Prerequisite: LS 258 or permission of the instructor. Biennially.

- LS 361:** *ADMINISTRATION OF LIBRARIES* **3 s.h.**
Addresses the general principles of administration and their application to the organization and management of different types of libraries. Core components include general management techniques and administrative procedures, budget preparation, human resources issues, and facilities and resources management. Students will learn how to apply standards for evaluation of libraries and how to develop functional library programs. Provides a forum for the discussion of the roles of different types of libraries in society. Includes a required field experience. Biennially.
- LS 385:** *AUTOMATION IN THE LIBRARY MEDIA CENTER* **3 s.h.**
Surveys the use of automation in the library media center. Topics covered include the selection of computer hardware and software for instructional purposes; use of automated library systems for library management activities such as circulation, acquisition, and cataloging; and the importance of computer networks to areas including resource sharing, professional development, and fiscal planning. Prerequisite: ED 217 or permission of instructor. Biennially.
- LS 455:** *SPECIAL TOPICS IN LIBRARIANSHIP* **3 s.h.**
In-depth discussion, study, and research of a selected topic related to the role of the library in responding to social issues, service to special groups, or problem areas such as media and minorities, OCLC on-line bibliographic control, and media programs for the gifted. (Not creditable toward library science certification.) On demand.
- LS 457:** *INDEPENDENT STUDY / SEMINAR* **1-3 s.h.**
Students explore in-depth a facet of librarianship according to need or interest, under the direction of a faculty member of the department. Special area to be approved by a faculty committee. Includes development of research techniques and the preparation of a scholarly paper or completion of a special project. On demand.
- LS 459:** *MEDIA, METHODS, AND THE CURRICULUM* **3 s.h.**
Introduces planning for the effective use of school library media services in cooperation with the instructional staff. Examines school library media philosophies and educational objectives, the process of developing a library media program, and the librarian's role in designing curriculum, developing teaching-learning strategies, and working with teachers, students, and administrators. Includes a three-week practical experience in a school library media center. Prerequisites: LS 257, 258, either 356 or 358, and ED 327. Annually.
- LS 470:** *INTERNSHIP IN LIBRARIANSHIP* **3-6 s.h.**
Provides a laboratory experience in the professional atmosphere of a cooperating library or information center; allows undergraduate students who are not interested in school librarianship an opportunity to have an applied field experience in a public or special library. Evaluation based on observation at the field site, an evaluative paper, and participation in professional seminars. Enrollment by permission of instructor. Each semester.
- LS 491:** *BUSINESS REFERENCE SOURCES AND SERVICES* **3 s.h.**
Surveys the information sources and services typically found in corporate libraries, public library business information centers, and other specialized libraries with a business clientele. Includes in-depth examination of major business reference tools, as well as in-depth examination of the special operations, organization, and management of business libraries and departments of business information. Annually.

Music Education

The curriculum for majors in music education, leading to the Bachelor of Science in Education degree, combines a broad requirement in general education with advanced study in music theory, history and literature of music, applied music, specialized courses in music education and participation in performing organizations. The program prepares prospective public/private school teachers who specialize in music education with certification in elementary and secondary (K-12) instrumental, vocal, and general music. The emphasis of the program is twofold: the achievement of significant musical understanding and ability; and the development of teaching skills and techniques necessary for the effective communication of music understanding and abilities to others.

A high percentage of graduates find employment in their chosen fields. Increasing percentages attend graduate schools. Education graduates have secured teaching positions in districts, private and parochial schools, and church positions across the United States. The Bachelor of Science in Education degree (B.S.Ed.) in music education is fully accredited by the National Association of Schools of Music, National Council for Accreditation of Teacher Education, and the Pennsylvania Department of Education.

Prospective music majors are accepted in the department on the basis of an audition before a faculty committee from the Department of Music. Audition dates are scheduled throughout the academic year. Contact the Department of Music for additional information.

Program Requirements

GENERAL EDUCATION (48 s.h.)

The general education distribution for all students in the college is presented on page 59. Teacher education selection and retention standards are listed on page 168.

PROFESSIONAL EDUCATION (30 s.h.) s.h.

ED 110	Introduction to Education	3
ED 122	Educational Psychology	3
ED 327	Instructional Strategies & Management	3
ED 432	Student Teaching in Music	6
ED 433	Student Teaching in Music	6
MUS 289	Music Education Seminar	0
MUS 333	Elementary Music Methods	2
MUS 362	Instrumental Methods	2
MUS 363	Vocal Methods	2
SPED 418	Exceptionalities in the Regular Classroom ...	3

EARLY FIELD EXPERIENCE

Thirty hours of early field experience during the first four semesters of study. Ten hours are required in each of the following three areas: 1) elementary/general music, 2) secondary choral music, and 3) secondary instrumental music. The required 10 hours within each area must be completed under the supervision of at least two different music teachers. Contact the Department of Music office for complete early field experience requirements.

AREA OF SPECIALIZATION (42 s.h.)

MUS 126	Music Theory I	2
MUS 127	Music Theory II	2
MUS 128	Aural Skills I	1
MUS 129	Aural Skills II	1
MUS 226	Music Theory III	2
MUS 228	Aural Skills III	1
MUS 229	Aural Skills IV	1
MUS 345	Music From 1750 to 1900	3
MUS 346	Music From Antiquity to 1750	2
MUS 347	20 th -Century Music	3
MUS 360	Basic Conducting	1
MUS 365	Instrumental Conducting	2
	OR	
MUS 366	Choral Conducting	2
MUS 370	Orchestration/Arranging	2

PIANO PROFICIENCY (REQUIRED OF ALL BUT PIANO MAJORS*)

MUS 160	Piano Class I	1
MUS 161	Piano Class II	1
MUS 220	Piano Class III	1
MUSA 125	Applied Music: Piano	1

PIANO COMPETENCY TEST

Piano competency is required of all music education majors in order to qualify for student teaching and graduation. A student may take the Piano Competency Exam at any time, but no later than the end of the sophomore year.

TECHNIQUES CLASSES s.h.

MUS 182	Voice Class	1
MUS 243	Brass Class	1
MUS 244	String Class	1
MUS 245	Percussion Class	1
MUS 247	Woodwinds Class	1

APPLIED MUSIC (LESSONS)..... 7

All matriculated music majors must elect applied music credits on their major instrument/voice each semester in residence.

PERFORMING ORGANIZATIONS..... 2

All music majors are required to participate in at least one performing organization each semester they are in residence (0 or 1 credit). Two performing organizations (0 or 1 credit) must be elected from large ensembles: MUSA 130/330, 135/335, 136/336, 137/337, or 138/338. An additional two performing organizations (0 or 1 credit) must be elected from small ensembles: MUSA 131/331, 139/339, 142/342, 143/343, 144/344, 145/345, or 301. All music education majors must elect and pass one course (0 or 1 credit) in each of the following areas, to be selected from the courses indicated, during their first four semesters in residence and prior to enrollment in music methods courses (MUS 333, 362, and 363): 1) choral ensemble = MUSA 130/330 or MUSA 131/331; 2) instrumental ensemble = MUSA 135/335, MUSA 136/336, 137/337, 138/338, or 301; and 3) marching band = MUSA 136/336.

APPLIED MUSIC SEMINAR

Students pursuing degree programs are required to elect MUS 110 and to attend the biweekly student recital series each semester in residence as part of their curricular and performance requirements.

JUNIOR/SENIOR RECITAL

Students in the music education degree program are required to present a Senior Recital in their major applied area in accordance with generally accepted musical, technical, and repertoire standards. The Junior Recital is optional. Students performing a Junior or Senior Recital must perform a recital audition the semester prior to the semester in which the recital is to be performed. Students who successfully complete the audition process must elect MUS 110 and either MUS 310 for a Junior Recital or MUS 410 for a Senior Recital. Must be enrolled in applied lessons the semester the recital is performed.

Nursing

Information of certification as a school nurse in Pennsylvania is included under the School of Nursing and Allied Health on page 212.

Special Education and Rehabilitative Sciences

Department of Special Education and Rehabilitative Sciences, Richard Sabousky, Ph.D., chair

Special Education Center

Telephone: 393-2325

E-mail address: rsabousky@clarion.edu

Website: www.clarion.edu/departments/spec

Professors: Clary, Feroz, Gent

Associate Professors: Kilwein, Sabousky, Sentner, Turner

Assistant Professors: Kim, Stearns, Taylor, Wynkoop

B.S. Degree in Special Education

Special educators are teachers who have received specialized training and licensure to teach students with cognitive, behavior, and/or physical/health disabilities in N-12 settings. Special education, arguably one of the most challenging fields of education, requires teachers to use a variety of creative and critical thinking skills to develop and implement alternative instructional strategies and/or accommodations for individuals with disabilities.

The Special Education program is nationally accredited and is highly regarded throughout the Mid-Atlantic region as a producer of high quality and skillful teachers. Personnel from school districts throughout the United States regularly visit the Clarion campus to recruit graduates from the Special Education Program. Students who are accepted in Clarion's special education program will work with faculty who are experts in the field and earn the opportunity to participate in a variety of on- and off-campus field experiences involving increasing levels of responsibility and culminating in a semester-long student teaching experience. Student teaching generally occurs in districts in the Clarion region, but also includes sites in urban areas and in Europe. Acceptance into the Special Education Program is contingent upon passing scores on the Praxis I, minimum 2.8 QPA in the first four semesters at Clarion, and Act 33, Act 34, and FBI clearances.

Early in the professional studies, the student is introduced to the major theories, paradigms, and knowledge bases from education, psychology, and learning theory, including an analysis of models and theories of human exceptionality in learning, along with significant historical events and influences. During this period, the student, through first-hand observations, becomes acquainted with a diverse array of service delivery options, related professional roles, and persons with disabilities.

The student next focuses on an in-depth understanding of the specific disabling conditions, relevant variables and assessment procedures, and their related implications for learning and instruction. During this period of study, the student is required to engage in a specified number of field experiences that move the student from observation into direct experience and interaction with individuals with disabilities.

In the next phase, the student further extends and refines the knowledge and skill base through applications in specifically selected field placements and supervised

projects. During the final undergraduate semester, the student engages in student-teaching experiences under the joint supervision and guidance of a selected cooperating professional and department faculty. Students concurrently engage in a professional seminar where they have the opportunity to reflect on and relate their knowledge of theory and principle to their actual experiences in the field. The program is currently approved by the Pennsylvania Department of Education, but the Pennsylvania Department of Education is considering major changes to the certification standards. Students who wish to teach high school students with special needs will be required to be certified in a secondary content area.

Professional Education and Area of Specialization

ED	110:	Introduction to Education	3
ED	122:	Educational Psychology.....	3
ED	217:	Microcomputer Applications in the Classroom	3
SPED	126:	Introduction to Human Services	3
SPED	220:	Nature of MR	3
SPED	227:	Neurological and Physical Impairments	3
SPED	230:	Social & Emotional Disturbances.....	3
SPED	235:	Specific Learning Disabilities.....	3
SPED	245:	Applied Behavior Analysis	3
SPED	320:	Educational Appraisal	3
SPED	360:	Assistive Technology	3
SPED	380:	Special Math Instruction	3
SPED	381:	Special Reading and Written Expression.....	3
SPED	411:	Assessment Practicum	1
SPED	415:	Instr Dev/Strg Mild/Moderate.....	3
SPED	416:	Clinical Teaching Prac with Mild Dis.....	3
SPED	420:	Instructional Dev/ Str – Severe/Profound.....	3
SPED	421:	Clinical Prac for Mod, Severe, Multi Dis	3
SPED	422:	Special Education Classroom Admin	3
SPED	450:	Student Teaching.....	12
SPED	455:	Professional Seminar	2

B.S. Degree in Rehabilitative Sciences

The Rehabilitative Sciences Program is an interdisciplinary program that combines the resources of the departments of biology, psychology, sociology, health and physical education, and nursing with the resources of the Department of Special Education and Rehabilitative Sciences. The program prepares students for general human service positions in the areas of aging, developmental disabilities, or substance abuse. Graduates of the program assume a variety of positions, including case managers, residential program managers, day service directors, rehabilitation program specialists, qualified mental retardation personnel, substance abuse prevention specialists, activities directors, and similar positions.

Clarion's Rehabilitative Sciences program is highly regarded throughout Pennsylvania as a producer of high-quality entry-level rehabilitation professionals. Students who enroll in Clarion's Rehabilitative Sciences Program will work with nationally recognized faculty in the field and will participate in a variety of on- and off-campus field experiences involving increasing levels of responsibility and culminating in a semester-long supervised internship in a

human service agency. Internship opportunities are available throughout the region. Acceptance into the Rehabilitative Sciences Program is contingent upon 2.5 QPAs in the first four semesters at Clarion and Act 33, Act 34, and FBI clearances.

Program Requirements

Area of Specialization

I. REHABILITATIVE SCIENCE CORE.....	33 credits
REHB 126 Intro to Human Services	3
REHB 227 Neurological Disorders and Physical Impairments	3
SPED 245 Applied Behavior Analysis.....	3
REHB 250 Helping Relationship.....	3
REHB 460 Models of Human Services Delivery Systems	3
REHB 470 Assessment and Intervention Strategies	3
REHB 475 Administering Rehabilitation Delivery Systems	3
SW 211 Principles of Social Work	3
SW 212 Social Work with Groups	3
HPE 317 First Aid and Safety	2
COOP 377 COOP in Rehabilitative Sciences	3
REHB 378 Seminar in Coop 377.....	1

Concurrent with completion of the rehabilitative science core, students must complete one of the following options. These options are designed to provide students with opportunities to focus their studies on a particular human service consumer group or prepare for further study at the graduate-school level.

A. DEVELOPMENTALLY DISABLED CONCENTRATION.....	25 credits
CSD 125 Intro to Communication Disorders	3
SPED 220 Nature of Mental Retardation	3
HPE 333 Fitness for Wellness	3
SPED 420 Instructional Development and Strategies for Severely/Profoundly Handicapped	3
REHB 495 Field Experience in Rehabilitative Sciences	6
REHB 495 Field Experience in Rehabilitative Sciences....	6
REHB 496 Seminar for REHB 495	1
RELATED ELECTIVES – 14 credits	
B. GERONTOLOGY CONCENTRATION.....	28 credits
SOC 353 Aging in American Society	3
NURS 365 Health Promotion for the Elderly	3
PSY 464 Theories of Counseling	3
PSY 467 Gerontological Psychology	3
REHB 430/530 Aging and the Human Services	3
REHB 495 Field Experience in Rehabilitative Sciences....	6
REHB 495 Field Experience in Rehabilitative Sciences....	6
REHB 496 Seminar for REHB 495	1
RELATED ELECTIVES.....	11 credits
C. SUBSTANCE ABUSE CONCENTRATION.....	31 credits
PSY 321 Psychology of Adolescence	3
HPE 333 Fitness for Wellness	3
SOC 351 Contemporary Social Problems	3
SOC 361 Sociology of Deviant Behavior	3
REHB 405 Substance Abuse	3
REHB 410 Prevention and Treatment Strategies in Substance Abuse	3
REHB 495 Field Experience in Rehabilitative Sciences	6
REHB 495 Field Experience in Rehabilitative Sciences	6
REHB 496 Seminar for REHB 495	1
RELATED ELECTIVES – 8 credits	

D. OPEN SEQUENCE..... 27 credits

Students are required to take nine credit hours from each of three of the following fields: psychology, sociology, mathematics, biology, chemistry, computer science, political science, special education/rehabilitative sciences, speech pathology/audiology, or modern languages.

SOC 351 Contemporary Social Problems	3
SOC 361 Sociology of Deviant Behavior	3
REHB 405 Substance Abuse	3
REHB 410 Prevention and Treatment Strategies in Substance Abuse	3
REHB 495 Field Experience in Rehabilitative Sciences	6
REHB 496 Seminar for REHB 495	1

Elementary Education/Special Education

With careful planning, students can complete programs leading to certification in both special education and elementary education in 10 semesters, thereby becoming eligible to teach in both regular and special classrooms. The dual certification also will help students to meet the challenges of inclusion. In addition, several states now require dual certification to teach individuals with disabilities. Students interested in this program should contact the chair of the Department of Special Education and Rehabilitative Sciences or Education for more information.

Special Education/Early Childhood

Many employment opportunities exist in the state of Pennsylvania and throughout the country in pre-school special education programs. The College of Education and Human Services offers a program of study which will provide students interested in working with pre-school students with special needs dual certification in special education and early childhood education. Students completing this program are qualified to teach in special education programs, early childhood programs from pre-school to grade three, as well as in special education infant stimulation and pre-school programs. This program offers students an outstanding opportunity to obtain professional employment in infant and pre-school programs, as well as in special education. Completion of the following requirements will lead to dual state certification in special education and early childhood education:

I. PROFESSIONAL EDUCATION CORE	12 credits
ED 110 Introduction to Education	3
ED 121 Human Development and Learning	3
ED 217 Microcomputer Applications in the Classroom	3
ELED 327 Instructional Strategies & Management.....	3
II. EARLY CHILDHOOD CORE.....	14 credits
ECH 235 Constructing an Early Childhood Knowledge Base	3
ECH 236 Assessment and Planning : Using ECH Knowledge.....	3
ECH/CSD 290 Speech Language & Young Child.....	3
ECH 320 Developmental Bases for Learning and Teaching	3
HPE 317 First Aid & Safety	2

III. EARLY CHILDHOOD BLOCK..... 15 credits

Must be taken concurrently

ECH 322	Curriculum Bases for Learning & Tch.....	3
ECH 323	Literacy and the Young Child	3
ECH 325	Young Children as Theory Builders.....	3
ECH 413	Leadership in Early Childhood Settings	3
HPE 410	Motor Development and Learning.....	3

IV. SPECIAL EDUCATION CORE..... 33 credits

SPED 126	Introduction to Human Services	3
SPED 220	Nature of Mental Retardation	3
SPED 227	Neurological & Physical Impairments.....	3
SPED 230	Social & Emotional Disturbances.....	3
SPED 235	Spec. Learning Disabilities	3
SPED 245	Applied Behavior Analysis	3
SPED 320	Educational Assessment.....	3
SPED 360	Assistive Technology	3

SPED 380	Special Mathematics Instruction.....	3
SPED 381	Special Read & Written Expression.....	3

V. SPECIAL EDUCATION BLOCK..... 16 credits

SPED 411	Education Assessment Practicum	1
SPED 415	Instructional Development and Strategies for Mildly/Moderately Handicapped	3
SPED 416	Clinical Practicum with Mild Disorders.....	3
SPED 420	Instructional Development and Strategies for Severely/Profoundly Handicapped	3
SPED 421	Clinical Practicum for Moderate, Severe, and Multiple Disabilities	3
SPED 422	Special Education Classroom Administration	3

VI. STUDENT TEACHING..... 14 credits

ECH 424	Student Teaching	6
SPED 450	Student Teaching.....	6
SPED 455	Seminar	2

Rehabilitative Science Courses**REHB 126: INTRODUCTION TO HUMAN SERVICES****3 s.h.**

Serves as an interdisciplinary orientation to the field of human services, including education, mental health, substance abuse, gerontology, disability, youth services, rehabilitation, and criminal justice. The history and philosophy of human services careers, and function of human services agencies are explored with an emphasis placed on the reciprocal interactions between human service providers and their consumers. Each semester.

REHB 211: PARAPROFESSIONALS IN EDUCATION AND HEALTH SERVICES**1 s.h.**

Serves paraprofessionals functioning as instructional assistants in the classroom and those providing home-health and long-term care services in a variety of settings. Knowledge and practical skills in the history of the profession; legal requirements and parameters; mental, physical, and emotional conditions affecting students and clients; roles and responsibilities; communication; effective strategies and techniques; and required tasks in a variety of work environments form the basis of the course. Venango Campus. Prerequisites: REHB 126.

REHB 227: NEUROLOGICAL IMPAIRMENTS AND PHYSICAL DISORDERS**3 s.h.**

Presents the major physical disabilities, the reaction of family and individuals to the disability, therapeutic procedures, rehabilitation services, and direct contacts with persons with disabilities. Each semester on Clarion Campus, and Fall Semester at Venango Campus.

REHB 250: THE HELPING RELATIONSHIP PRINCIPLES AND PROCEDURES**3 s.h.**

Assists students in acquiring knowledge and skill in the performance of required tasks and/or roles of rehabilitative service staff in developing humanizing environments for persons with disabilities in various settings. Prerequisite: SPED/REHB 126. Each semester.

REHB 295: FIELD EXPERIENCE**6 s.h.**

A half-time, full-semester field experience in selected programs. Focuses on assisting in the delivery of human/educational services to persons with disabilities. Prerequisites: Minimum of 45 semester hours. Offered at Venango Campus.

REHB 378: SEMINAR FOR CO-OP 377**1 s.h.**

This required companion course to COOP 377 enables students to have the opportunity to discuss their field experiences in a structured seminar setting, providing them the opportunity to better understand and integrate agency activities such as assessment, treatment planning, team meetings, case management, and therapeutic interventions. In addition, students discuss and appreciate agency policies, procedures, and interpersonal communication. Prerequisites: SPED/REHB 126, SPED 245, REHB 250. Spring and Summer semesters.

REHB 405: SUBSTANCE ABUSE**3 s.h.**

Participants study the physiological and psychosocial implication of drug or alcohol abuse, over-medication, and drug dependence, emphasizing intervention, advocacy, treatment, and prevention. Fall Semester.

REHB 410: PREVENTION AND TREATMENT STRATEGIES IN SUBSTANCE ABUSE**3 s.h.**

Participants engage in the study of societal pressures, attempts to prevent substance abuse, and treatment strategies along with the comparative analysis of efficacy. Prerequisite: REHB 405. Spring Semester.

REHB 430/530: AGING AND THE HUMAN SERVICES**3 s.h.**

Provides information related to older adult care management from the framework of human services systems. Concepts of client triage, assessment, planning, and brokering are reviewed within the context of identifying problems associated with aging, identifying components of human services delivery systems, and case management skill development. Prerequisite: REHB 250.

REHB 460: MODELS OF HUMAN SERVICES DELIVERY SYSTEM**3 s.h.**

Analyzes the purposes, structure, and context of the entire network of human services delivery models in Pennsylvania with comparative reference to selected models outside of Pennsylvania. Fall, annually.

REHB 470/570: ASSESSMENT AND INTERVENTION STRATEGIES**3 s.h.**

Features a practical hands-on approach to assessment and intervention with a variety of specific populations. Target groups include people with mental retardation, mental disorders, and chemical dependency, as well as aging and adolescent populations. Covers fundamental issues, applied strategies, and assessment techniques leading to the formulation, implementation, and evaluation of therapeutic treatment plans. Prerequisite: REHB 460.

- REHB 475/575:** *ADMINISTERING REHABILITATIVE DELIVERY SYSTEMS* **3 s.h.**
A study of the business and personal aspects of functioning in and managing human service delivery systems. Examines organizing, operating, and managing human service systems relative to legal, economic, and personnel standards and practices. Prepares students to interact with legal, financial, and business experts in the operation and development of rehabilitation services. Prerequisite: REHB 460. Spring, annually.
- REHB 495:** *FIELD EXPERIENCE IN REHABILITATIVE SCIENCES* **6 s.h.**
A full-time, semester-long supervised experience that includes professional development experiences in community residential programs, vocational rehabilitation services, and MH/MR Base Service Units or similar social services. Prerequisites: REHB 460, 470, and 475. Each semester.
- REHB 496:** *SEMINAR FOR REHB 495* **1 s.h.**
This course will enable students involved in the REHB 495 Field Experience to have bi-weekly peer contact to assure that the qualitative experience involving knowledge and values are being appropriately integrated by the students. This type of seminar course is required by the Council for Standards in Human Service Education for students involved in fieldwork involving direct exposure to human service agencies and clients. It is designed to complement and enhance the supervised field experience. Prerequisites: REHB 460, 475, and 470. Each semester.
- Waiver: Change in prerequisite may be made with approval of the department chair and course instructor.*

Special Education Courses

- SPED 126:** *INTRODUCTION TO HUMAN SERVICES* **3 s.h.**
Serves as an interdisciplinary orientation to the field of human services, including education, mental health, substance abuse, gerontology, disability, youth services, rehabilitation, and criminal justice. The history and philosophy of human services, human services as careers, and function of human services agencies are explored with an emphasis placed on the reciprocal interactions between human service providers and their consumers. Each semester.
- SPED 220:** *NATURE OF MENTAL RETARDATION* **3 s.h.**
Comprehensive study of the biological, psychosocial, and educational implications of retarded mental development, including a consideration of etiology; assessment and diagnosis; educational programs, including preschool and postschool; multicultural issues; adult social and vocational adjustment; national and local programs; and research. Each semester on Clarion Campus, and Spring Semester at Venango Campus. Multicultural education will be applied.
- SPED 227:** *NEUROLOGICAL IMPAIRMENTS AND PHYSICAL DISORDERS* **3 s.h.**
Presents the major physical disabilities, the reaction of family and individuals to the disability, therapeutic procedures, rehabilitation services, and direct contacts with disabilities. Each semester on Clarion Campus, and Fall Semester at Venango Campus.
- SPED 230:** *SOCIAL AND EMOTIONAL DISTURBANCES* **3 s.h.**
Focuses on the nature of social and emotional disturbances, and familiarizes the student with atypical behaviors, utilizing current classification systems and theoretical models. Emphasizes history, etiology, nature, characteristics, assessment, and treatment approaches. Prerequisites: SPED 220 and 227. Each semester.
- SPED 235:** *SPECIFIC LEARNING DISABILITIES* **3 s.h.**
Focuses on the nature of specific learning disabilities. Includes history, definition, characteristics, assessment, strategies, and tactics of instruction and/or remediation, vocational implications and federal and state laws and regulations in regard to the individual who is learning disabled. Prerequisites: SPED 220 and 227. Each semester.
- SPED 245:** *APPLIED BEHAVIOR ANALYSIS* **3 s.h.**
Focuses on principles of applied behavior analysis in the assessment and treatment of behavioral excesses or deficiencies. Students will design programs to increase skill acquisition or reducing appropriate behavior for either groups or individuals in special education or rehabilitation settings. Prerequisite: SPED 126. Each semester.
- SPED/GS 262:** *INTRODUCTION TO SERVICE LEARNING* **3 s.h.**
Provides an overview of service learning. Presents history, legislation, and theory relevant to service, in addition to the components and standards of service learning. Students will be prepared for service through readings in the subject area, sensitivity training, conflict resolution, and etiquette. Students will then spend 30 hours in community-based service activity at three of five priority sites. Students will reflect in writing upon their service and will attend weekly seminars. Prerequisite: ENG 110. On demand.
- SPED 320:** *EDUCATIONAL ASSESSMENT* **3 s.h.**
Assists students in acquiring knowledge and skills needed for decision-making regarding individuals with disabilities or suspected disabilities, and apply these skills in case studies. Prerequisites: SPED 220, 230, 235, and 2270. Each semester.
- SPED 360:** *ASSISTIVE TECHNOLOGY* **3 s.h.**
Students learn how to assess assistive technology requirements for people with disabilities, make low-tech devices, and install and operate computer hardware and software applications in a laboratory experience.
- SPED 380:** *SPECIAL MATHEMATICS INSTRUCTION* **3 s.h.**
Provides students with specific data-based strategies to teach mathematics to students with disabilities. Prerequisites: SPED 126, 220, 227, 230, 235, 245, and MATH 111. Each semester.
- SPED 381:** *SPECIAL READING AND WRITTEN EXPRESSION INSTRUCTION* **3 s.h.**
Provides students with specific data-based strategies to teach reading and writing to students with disabilities. Prerequisites: SPED 126, 220, 227, 230, 235, and 245. Each semester.
- SPED 400:** *SPECIAL TOPICS* **1-6 s.h.**
Deals with topical themes in special education to expand the knowledge and competence of teachers. Enrollment is by consent of the instructor. Summers only, on demand.

- SPED 411: EDUCATIONAL ASSESSMENT PRACTICUM 1 s.h.**
Participants conduct a child study in a school setting by selecting, acquiring, analyzing, and synthesizing information needed for educational decision-making regarding an individual with disabilities or with a suspected disability, and using the results to develop an educational intervention plan. Prerequisite: SPED 320. Each semester.
- SPED 415: INSTRUCTIONAL DEVELOPMENT AND STRATEGIES FOR MILDLY / MODERATELY HANDICAPPED 3 s.h.**
Participants engage in the process of individualizing instruction for individuals with mild to moderate disabilities, including: designing basic instructional sequences utilizing behavioral objectives, matching technology and learner and goal characteristics, identifying appropriate instructional strategies, and evaluating the effectiveness of instruction. Multicultural education is addressed. Prerequisites: SPED 320; ELED 323, 324 (rehabilitative science majors exempted). Each semester.
- SPED 416: CLINICAL TEACHING PRACTICUM IN CLASSROOMS FOR STUDENTS WITH MILD DISABILITIES 3 s.h.**
This is the study of individualizing instruction for students with mild disabilities. It involves designing basic instructional sequences utilizing behavioral objectives, matching media, learner, and goal characteristics, and evaluating the effectiveness of instruction. Prerequisites: SPED 320, 360, 380, and 381. Must be taken concurrently with SPED 415. Each semester.
- SPED 418: EXCEPTIONALITIES IN THE REGULAR CLASSROOM 3 s.h.**
Prepares students to deal with the nature and needs of the exceptional person in a regular classroom. Examines contemporary methods of identification, services for the exceptional individual, and legal aspects of the least restrictive environment. Each semester.
- SPED 420: INSTRUCTIONAL DEVELOPMENT AND STRATEGIES FOR SEVERELY / PROFOUNDLY MULTI-HANDICAPPED 3 s.h.**
Participants engage in the process of individualizing instruction for individuals with severe/profound multiple disabilities, including: designing basic instructional sequences using behavioral objectives, technology, learner and goal characteristics; identifying appropriate instructional strategies; and evaluating the effectiveness of instruction. Prerequisites: SPED 320; ELED 323, 324 (rehabilitative science majors exempted). Each semester.
- SPED 421: CLINICAL PRACTICUM FOR PERSONS WITH MODERATE, SEVERE, AND/OR MULTIPLE DISABILITIES 3 s.h.**
This practicum places preservice teachers into field settings involving people with moderate, severe, and/or multiple disabilities who will use an individualized independence curriculum. Preservice teachers will implement basic instructional sequences utilizing behavioral objectives, matching instruction with learner and goal characteristics, identifying appropriate instructional strategies, and evaluating the effectiveness of instruction. Prerequisites: SPED 320, 360, 380, and 381. Must be taken concurrently with SPED 420. Each semester.
- SPED 422: SPECIAL EDUCATION CLASSROOM ADMINISTRATION 3 s.h.**
In addition to mastering instructional strategies and curricular content, today's special education teachers are required to be knowledgeable about various theories, policies, and procedures necessary for the complex daily administration of the special education program. Competencies included in this course will be: adapting the classroom environment to meet the physical, academic, and emotional needs of students; classroom management techniques; development of the IEP, behavior and transition plans; and collaboration with other professionals, paraprofessionals, and parents. Prerequisites: SPED 320, 360, 380, 381. Each semester.
- SPED 440: INSTRUCTIONAL DEVELOPMENT AND STRATEGIES FOR CULTURALLY DIFFERENT CHILDREN 3 s.h.**
A study of the process of individualizing instruction for children who are not members of the dominant culture and whose cultural membership significantly influences the educational process and school performance. Involves designing basic instructional sequences, selecting and matching media with learner and goal characteristics, identifying culture-appropriate instructional strategies, and evaluating the effectiveness of instruction. Summer only, on demand.
- SPED 441: TEACHING STUDENTS WITH DISABILITIES IN THE SECONDARY CLASSROOM 3 s.h.**
Prepares educators with the skills and knowledge to deliver and support instruction to students with disabilities in secondary classroom settings. Prerequisites: SPED 418.
- SPED 442: DIFFERENTIATING INSTRUCTION IN INCLUSIVE SETTINGS 3 s.h.**
Focuses on planning, designing, and delivering differentiated instruction to an increasingly diverse general education population, including students with disabilities, students who are gifted, students at risk, and students with cultural differences. Prerequisites: SPED 418.
- SPED 443: PREVENTION AND TREATMENT OF ACADEMIC AND LEARNING PROBLEMS 3 s.h.**
Reviews the practice of prevention and intervention in dealing with students who are academically deficient, including response-to-intervention, scientifically-based instruction, and the teacher, learner, curriculum interface. Prerequisites: SPED 418.
- SPED 450: STUDENT TEACHING 6-12 s.h.**
Observation and participation in teaching students with disabilities and in activities related to the performance of a teacher's work. Prerequisites: SPED 320, 415, 416, 420, 421, and 422.
- SPED 455: PROFESSIONAL SEMINAR 2 s.h.**
Examines problems, practices, and regulations attending student teaching professional experiences. Coordinates the student teaching program with the educational objectives of the student teaching centers. Examines Pennsylvania school laws relevant to the work of the beginning special educator. Includes practical interpretations of professional ethics and the functions of professional organizations. Limited to student teachers. Each semester.
- SPED 499: INDEPENDENT STUDIES IN SPECIAL EDUCATION 1-3 s.h.**
Provides students with an opportunity to explore an area of special needs or interest in special education in-depth under the supervision of a faculty member of the department. Students must develop a proposed study plan and secure the approval of the department chair prior to registration. Prerequisite: Junior or senior standing.
Waiver: Change in prerequisite may be made with approval of department chair and course instructor.

General Studies Course

Courses carrying the GS label are interdisciplinary in nature or are courses which do not fit into any of the usual academic disciplines. They are taken as free electives, as personal development and life skills under general education, or may with departmental approval be substituted for required courses in some majors.

SPED/GS 262: INTRODUCTION TO SERVICE LEARNING **3 s.h.**

Provides an overview of service learning. Presents history, legislation, and theory relevant to service, in addition to the components and standards of service learning. Students will be prepared for service through readings in the subject area, sensitivity training, conflict resolution, and etiquette. Students will then spend 30 hours in community-based service activity at three of five priority sites. Students will reflect, in writing, upon their service and will attend weekly seminars. Prerequisite: ENG 110. On demand.

Speech Pathology and Audiology

Department of Communication Sciences and Disorders,

Colleen A. McAleer, Ph.D., chair

113 Keeling Health Center

Telephone: 393-2581

E-mail address: cmcaleer@clarion.edu

Professors: Jarecki-Liu, McAleer, Savage

Assistant Professors: Gooding, Linnan, McCarthy, Staub

Instructor: Janes

Leading to the Bachelor of Science degree in speech pathology and audiology, this pre-professional program is designed to prepare the student for graduate study and the completion of professional requirements at that level. Full professional status, including certification by the American Speech-Language-Hearing Association and appropriate state licensure, requires completion of the master's degree.

In addition to the undergraduate program, the department offers a graduate degree in speech pathology and makes provisions for teacher certification following the completion of the Master of Science degree. The graduate program is accredited in speech language pathology by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

SPEECH PATHOLOGY AND AUDIOLOGY, (B.S.) 57 credits

Required: CSD 125, 150, 156, 251, 257, 258, 352, 353, 454, 460, 463, 467, 472, 475; ED 110, 217 or CIS 217; ELED 323; Psychology elective; SPED 418; and MATH 221 or PSY 230.

Sequence of Courses

			<i>c.h.</i>	<i>s.h.</i>
FIRST SEMESTER				
CSD	125	Introduction to Communication Disorders.....	3	3
CSD	150	Speech Science	3	3
SECOND SEMESTER				
CSD	156	Phonetics and Phonology.....	3	3
FIRST OR SECOND SEMESTER				
BIO		Biology Course	3	3
PHSC		Physical Science Course.....	3	3
THIRD SEMESTER				
CSD	251	Anatomy of Speech and Hearing Mechanisms	3	3
CSD	257	Developmental Sequences in Language and Speech.....	3	3
FOURTH SEMESTER				
CSD	258	Language Disorders in Children.....	3	3
FIFTH SEMESTER				
CSD	352	Speech Disorders	3	3
SIXTH SEMESTER				
CSD	353	Adult Communication Disorders.....	3	3
SEVENTH SEMESTER				
CSD	460	Introduction to Audiology	3	3
CSD	467	Clinical Observation	3	3
CSD	475	Augmentative and Alternative Communication	3	4
EIGHTH SEMESTER				
CSD	463	Aural Rehabilitation	3	3
CSD	454	Professional Practicum	3	3
SEVENTH OR EIGHTH SEMESTER				
CSD	472	Seminar in Speech Science.....	3	3

Speech Pathology and Audiology Courses

CSD 125: INTRODUCTION TO COMMUNICATION DISORDERS **3 s.h.**

Introduces communication disorders. Encompasses the variety of problems humans may have in speech, language, and hearing. Focuses on the nature of such problems, their causes, their impacts on people, methods for their evaluation, and methods for their management. Includes an orientation to the professions of speech-language pathology and audiology.

CSD 150: SPEECH SCIENCE **3 s.h.**

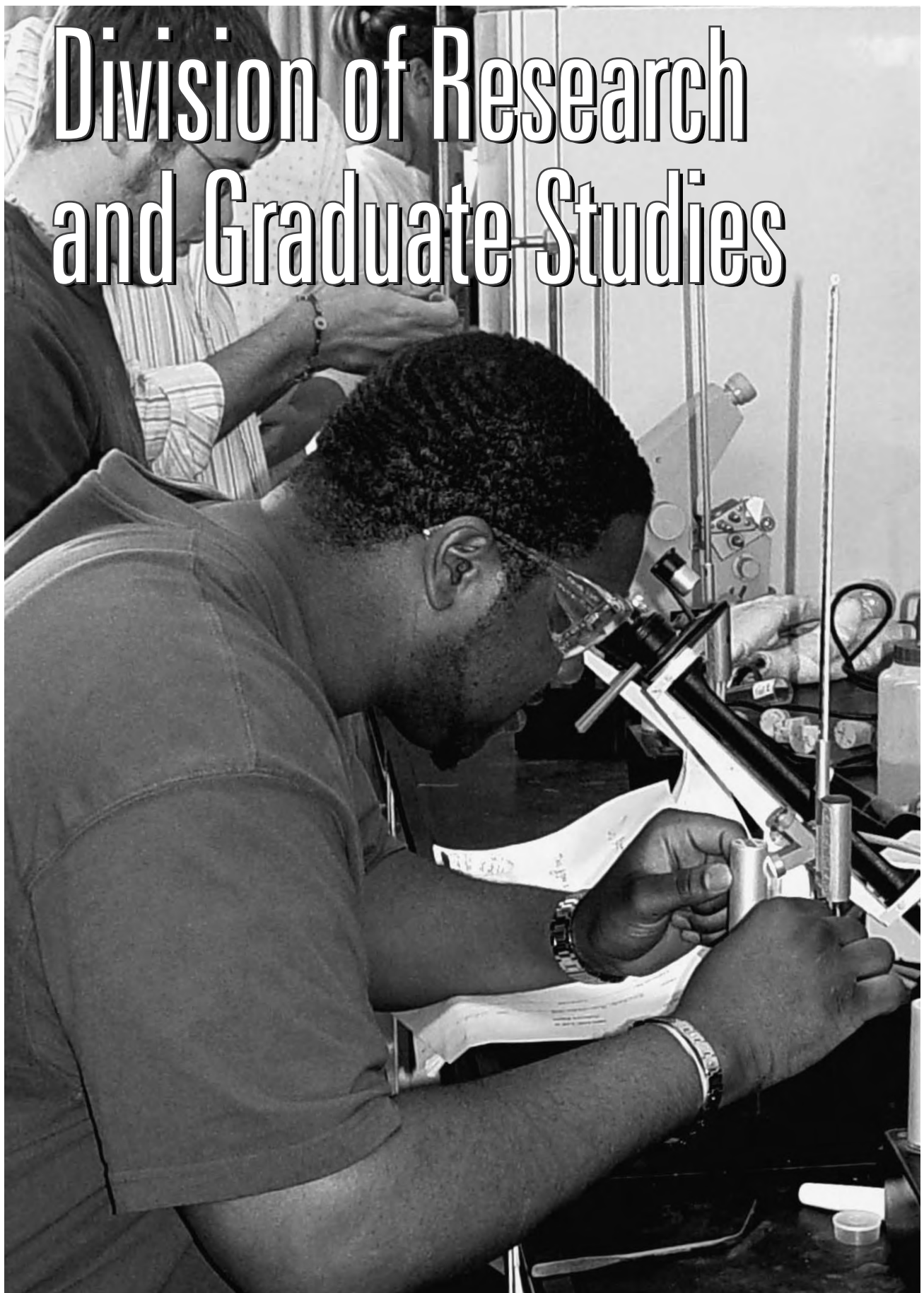
Analyzes models of the speech mechanism. Emphasizes normal aspects of the physiology and acoustics of speech production. Fall, annually.

CSD 156: PHONETICS AND PHONOLOGY **3 s.h.**

Transcription of normal and deviant speech using the International Phonetic Alphabet. Applies phonetics and phonemics to language and speech pathology. Explores instruments used in speech and hearing. Spring, annually.

- CSD 251:** *ANATOMY OF SPEECH AND HEARING MECHANISMS* **3 s.h.**
Study of the anatomy and physiology of the speech and hearing mechanisms. Fall, annually.
- CSD 257:** *DEVELOPMENT SEQUENCES IN LANGUAGE AND SPEECH* **3 s.h.**
Study of the development of language and speech in the normal child. Normative data in speech and language development are studied.
- CSD 258:** *LANGUAGE DISORDERS IN CHILDREN* **3 s.h.**
Provides students with an understanding of language disorders in children, etiological factors associated with them, diagnostic and evaluative techniques, and therapeutic methodologies. Prerequisite: CSD 257. Spring, annually.
- CSD 352:** *SPEECH DISORDERS* **3 s.h.**
Begins with an overview of the professions of speech pathology and audiology. Discusses communication disorders using the theoretical basis for service delivery models, communicative development, and cultural differences. Emphasizes diagnosis, team management, and treatment strategies of articulation, voice, resonance, and stuttering disorders. Observation experience is provided. Fall, annually.
- CSD 353:** *ADULT COMMUNICATION DISORDERS* **3 s.h.**
Reviews the theoretical basis for communication disorders. Emphasizes diagnosis, team management, and treatment strategies of adult language disorders such as aphasia, apraxia, and swallowing disorders.
- CSD 357:** *APPLIED LINGUISTICS* **3 s.h.**
Study of linguistics fundamentals and theories. Explores specific techniques for analyzing phonological, morphosyntactical, semantic, and pragmatic aspects of speech/language in children and adults. Emphasizes the application of these assessment results to clinical practice. Prerequisite: ENG 263.
- CSD 422:** *CLINICAL EXTERNSHIP* **6 s.h.**
Supervised observation of and participation in clinic and/or school environments. Provides observational experience.
- CSD 433/533:** *INSTRUMENTATION AND HEARING SCIENCE* **3 s.h.**
Deals with instruments used in a speech and hearing program and also covers basic principles of hearing science. Provides some information on psychoacoustics. Spring, annually.
- CSD 454:** *PROFESSIONAL PRACTICUM* **3 s.h.**
Explores current professional issues and trends in the practice of speech-language pathology and audiology. Includes licensure and certification. Emphasizes ethical/legal restrictions and obligations that influence professional practitioners.
- CSD 460:** *INTRODUCTION TO AUDIOLOGY* **3 s.h.**
Investigates the nature of hearing disorders and the audiological, medical, social, psychological, and educational implications. Fall, annually.
- CSD 463:** *AURAL REHABILITATION* **3 s.h.**
A comprehensive study of auditory rehabilitation, emphasizing auditory training, speech reading, and speech training. Prerequisite: CSD 460. Spring, annually.
- CSD 465:** *MANUAL COMMUNICATION* **3 s.h.**
Covers a comprehensive review of the theories of manual communication, including an introduction to the major manual communication systems. Students learn to sign and finger spell for use in communicating with and rehabilitation of the deaf and hard of hearing.
- CSD 467:** *CLINICAL OBSERVATION* **3 s.h.**
Covers basic information pertaining to the profession of speech pathology and audiology. Provides an orientation to the facilities, equipment, and operations of the Clarion University Speech and Hearing Clinic. Examines various types of clinical reports and teaches basic observational skills both in the classroom and clinic as a prerequisite for client contact for speech and hearing science majors.
- CSD 472:** *SEMINAR IN SPEECH SCIENCE* **3 s.h.**
Begins with a review of the speech mechanism as a servosystem and transducer, and basic knowledge of the physics of sound. Focuses on the concept that the speech mechanism is a chain of events physiologically, acoustically, and perceptually. Examines each link in this chain of events in terms of basic knowledge, pertinent research, and each link's contribution to the speech chain as a whole. Prerequisite: CSD 156.
- CSD 475:** *AUGMENTATIVE AND ALTERNATIVE COMMUNICATION* **3 s.h.**
Introduces the student to various augmentative/alternative communication systems prevalent in the field. Current and comprehensive information relative to type of disorder. Diagnosis and treatment discussed. Emphasizes the application of unique criteria in diagnostic and the administration of competent and flexible management strategies in rehabilitation. Fall, annually.
- CSD 498:** *SPECIAL TOPICS* **1-6 s.h.**
Examines various areas of speech pathology and audiology. Professor selects format most suitable to the study. May be offered on request of students, subject to the availability of staff. Enrollment by consent of the instructor. On demand.
- CSD 499:** *INDEPENDENT STUDIES IN COMMUNICATION SCIENCE AND DISORDERS* **1-3 s.h.**
Provides students with an opportunity to explore an area of special need or interest in speech pathology and audiology in depth under the supervision of a member of the department. Students must develop a proposed study plan and secure the approval of the proposed director and department chair prior to registration. Prerequisite: Junior or senior standing. Repeatable for a maximum of 6 s.h.

Division of Research and Graduate Studies



Division of Research and Graduate Studies

Brenda Sanders Dédé, Ed.D., assistant vice president for academic affairs

108 Carrier Administration Building

Telephone: 393-2337

E-mail address: bdede@clarion.edu

Website: www.clarion.edu/admin/

Graduate Degree Programs

Clarion University of Pennsylvania offers 11 graduate-level programs leading to the Master of Arts, Master of Business Administration, Master of Education, Master of Science, Master of Science in Library Science, or Master of Science in Nursing degrees. The Master of Science in Library Science program is accredited by the American Library Association; the Master of Science program in speech pathology and audiology is accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association; the Master of Business Administration program is accredited by AACSB International—The Association to Advance Collegiate Schools of Business; and the Master of Science in nursing program is accredited by the National League for Nursing Accrediting Commission (NLNAC).

Master of Arts degree

English

Master of Business Administration

Master of Education degrees in

Education

Coaching Education concentration

Curriculum & Instruction concentration

Early Childhood concentration

English concentration

History concentration

Literacy concentration

Mathematics concentration

Principalship Preparation concentration

Reading Specialist concentration

Science concentration

Science Education

Technology concentration

World Cultures concentration

Master of Science degrees in

Biology

Library Science

Pennsylvania School Library Media Certification

Certificate of Advanced Studies

Mass Media Arts and Journalism

Nursing (offered jointly with Edinboro and Slippery Rock Universities)

Family Nurse Practitioner concentration

Nurse Educator concentration

Post-master's certificate—family nurse practitioner

Post-master's certificate—nurse educator

Rehabilitative Sciences

Special Education

Speech Language Pathology

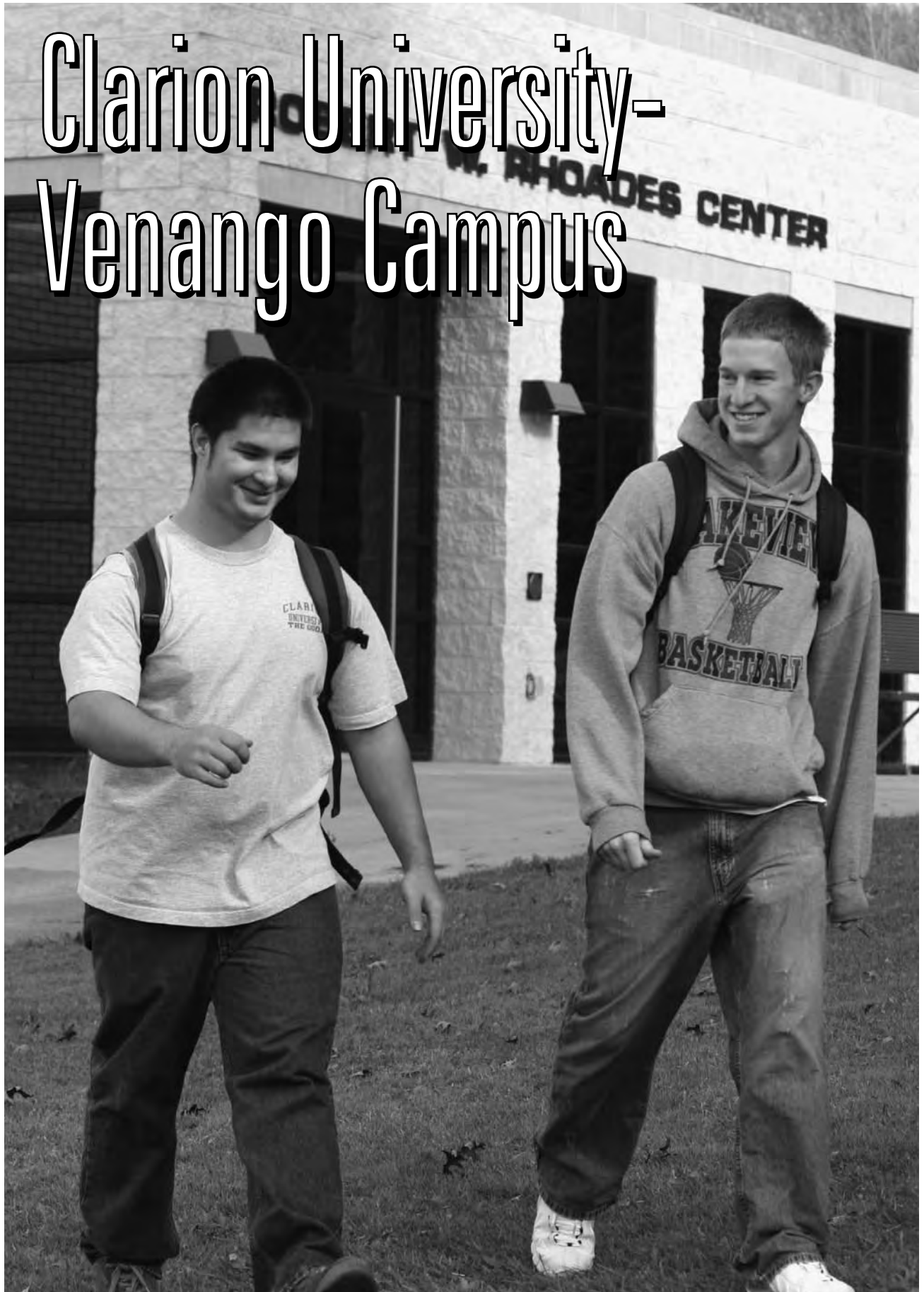
Instructional Technology Specialist Certificate

Post-Master's Principalship Preparation Program (offered jointly with Slippery Rock University)

Reading Specialist Certification

For more detailed information on graduate curricula and courses, refer to the *Graduate Catalog*.

Clarion University- Venango Campus



Clarion University– Venango Campus

Christopher M. Reber, Ph.D., executive dean

Frame Hall, Venango Campus

Telephone: 814-676-6591 or 877-VENANGO, ext. 1207

E-mail address: creber@clarion.edu

Website: www.clarion.edu/venango

Mission and Goals

Venango Campus, as an integral component of Clarion University, is committed to providing students with a high quality educational experience in a personal setting that allows for individualized services and support. Clarion University–Venango Campus grants two-year, stand-alone, associate degrees in 11 academic disciplines. The campus also offers select baccalaureate and master’s degrees and provides students an opportunity to begin any of Clarion University’s 90-plus bachelor degree programs. Clarion University–Venango Campus is home to the university’s School of Nursing and Allied Health and Department of Applied Technology.

Clarion University–Venango Campus is responsive to the needs of the community and dedicated to developing innovative programs that meet the requirements of the local population. In addition to its academic degree offerings, Venango Campus offers 11 certificate programs providing critical job skills training. The campus also provides a range of continuing education courses. Special programs have been designed for young children, academically-talented high school students who want to start earning college credits, returning adult learners, and older individuals.

To help all individuals excel, trained counselors work with students to assist with the transition to college life, improve learning and study skills, develop a career goal, and plan for success. Clarion University–Venango Campus also encourages students to be involved in a range of activities and clubs that provide social and leadership opportunities.

Admissions and Financial Aid

LaTrobe Barnitz, coordinator of admissions and financial aid

Frame Hall, Venango Campus

Telephone: 814-676-6591 or 877-VENANGO, ext. 1211

E-mail address: lbarnitz@clarion.edu or tnestor@clarion.edu

Website: www.clarion.edu/venango

Admissions

Admission policies and procedures of Clarion University–Venango Campus are the same as the general requirements for admission to the university at the Clarion Campus (page 15). In addition, Clarion University–Venango Campus offers unique programs for both traditional and non-traditional students needing extra support to ensure their success at the college level.

Through specialized student services and the Empowerment Program, Venango Campus provides proactive advising, mentoring, peer tutoring, and a structured environment that helps students achieve their goals and succeed in college. These services support the university’s commitment to provide access to public education for all citizens of Pennsylvania.

Specialized Admission Procedures for the Associate of Science Degree in Nursing

Please see Department of Nursing Policies—Associate of Science in Nursing Program—Admission Requirements on page 210.

Specialized Admission Procedures for the Associate of Science Degree in Respiratory Care

Please see Department of Allied Health Policies—Associate of Science in Respiratory Care Program—Admission Requirements on page 217.

Early Admission for High School and Home-Schooled Students

Jump Start Education Program

Clarion University–Venango Campus designed the *Jump Start* program to offer qualified 10th, 11th, and 12th grade students an opportunity to begin their higher education by earning college credits prior to graduating from high school. Students in the *Jump Start* program are eligible to enroll in day or evening classes at the Venango Campus. They may also take Web-based courses. Classes completed as a *Jump Start* student count toward a degree program whether the student continues at Clarion University after high school graduation or transfers to another college or university.

Objectives

The Clarion University–Venango Campus early admission program is designed to admit selected high school and home-schooled students on a part-time or full-time basis for summer, fall and/or spring. The program’s goals are:

- to provide academically talented high school students with an opportunity for course work of a greater scope and depth than is offered by their high school courses.
- to present selected students with an opportunity to experience college work prior to graduation from high school.
- to earn college credits while in high school that can be used toward a Clarion University degree or be transferred to other colleges and universities.

Requirement for Admission

For current high school and home school students to matriculate through the Clarion University–Venango Campus *Jump Start Program*, the following requirements must be met:

1. Students must be enrolled in 10th, 11th, or 12th grades and in college preparatory courses or the home-school equivalent.

2. Students must have a cumulative QPA* of 3.0 or better (85 percent or higher on a percentage scale) or an SAT score of 950 or higher. An equivalent ACT score will also be accepted. (Critical Reading and Math scores only)
3. Students must submit a letter of permission from their parent(s) or guardian(s).
4. Students must submit a letter of permission signed by their high school principal and guidance counselor.
5. Students must submit an undergraduate application and a \$30 application fee.
6. Students must submit an official high school transcript.

*If an interested student's academic record is below the QPA/Percentage requirement, the high school guidance counselor will have the latitude to recommend or not recommend the student for acceptance into the *Jump Start* program. Students who have not taken their SATs or ACTs prior to admission will be required to take either test during the semester of their enrollment.

Students participating in the program will be invited to attend a student orientation program.

Please direct materials and questions to:

LaTrobe Barnitz
 Coordinator of Admissions and Financial Aid
 Clarion University–Venango Campus
 1801 West First Street, Oil City, PA 16301
 814-676-6591, ext. 1211

Financial Aid

Clarion University–Venango Campus provides financial aid services similar to those available at the Clarion Campus. Individualized assistance is provided to students who need information or help with financial aid issues. The Clarion University–Venango Campus Office of Admissions and Financial Aid will help students complete state and/or federal forms for grants and loans, use books and computer software to help locate scholarships, and assemble information on personal budgeting, community resources, and developing a savings or investment plan.



Division of Continuing Education-Venango Campus

Hope Lineman, coordinator of continuing education

Frame Hall, Venango Campus

Telephone: 814-676-6951 or 877-VENANGO, ext. 1273

E-mail address: hlineman@clarion.edu

The Division of Continuing Education at Venango Campus provides the community with a variety of customized course offerings and programs. Continuing Education activities fall into the following categories: Certificate Programs, College Level Exam Placement, *Kids In College*, Non-credit Offerings, and *SeniorLink*.

Certificate Programs

Certificate Programs provide students with skills needed for employment and/or promotion and can be designed on an individual basis. Certificates can be completed through credit courses, non-credit courses, or a combination of credit and non-credit course offerings. Examples of certificate programs include, but are not limited to, Applied Computer Systems, Bookkeeping, Criminal Investigation, Electronics Technology, Executive Office Management, Legal Office Management, Massage Therapy, Medical Office Assistant, Medical Office Management, Medical Office Billing/Coding, and Small Business Management.

College Level Exam Placement

Clarion University–Venango Campus offers College Level Exam Placement (CLEP) testing that allows students to earn college credit based on their knowledge in specific fields. More than five million people have used CLEP to complete their college degree in record time and save valuable tuition dollars. Tests are scheduled every other month throughout the year.

Kids In College

Kids In College is a multi-faceted program provided for children in the community in grades K-8. The program is designed to offer exposure to many topics such as art, math, music, science, technology and more.

Non-credit Offerings

Non-credit offerings do not carry academic credit and do not require admission to the university. Reasons for pursuing non-credit courses include gaining job skills and personal and/or professional development.

SeniorLink

A program that educates adults about the use of computers, *SeniorLink* is designed for individuals 50 years of age and older. A variety of classes for beginner to advanced computer users are offered at a nominal fee.

Honors Program

David B. Lott, Ph.D.

Frame Hall, Venango Campus
Telephone: 814-676-6591 or 877-VENANGO, ext. 1219
E-mail address: dlott@clarion.edu
Website: www.clarion.edu/venango

The Clarion University–Venango Campus Honors Program presents associate and bachelor’s degree-seeking students an opportunity to expand their intellectual and creative curiosities through enriched exploration of course content and co-curricular experiences.

The unique Honors experience allows students to collaborate one-on-one with accomplished faculty, studying conventional course content in greater depth and breadth. Complementing the coursework is a vibrant co-curricular program designed to enhance the academic experience and create a cohesive Honors student community. Capitalizing on the campus’ small college environment and the faculty’s commitment to student learning, the Venango Campus is uniquely positioned to offer students a challenging, thought-provoking and rewarding Honors experience.

Students will complete 12 credits of contracted Honors coursework, acquire a set number of participation hours in the co-curricular program, maintain a minimum QPA of 3.4, and successfully complete the Capstone Course. Once all requirements have been met, students will be eligible to graduate “with honors,” a designation reflected on their transcripts and recognized formally at graduation.

Student Affairs at Venango Campus

Emily Aubele, director of student affairs

Robert W. Rhoades Center, Venango Campus
Telephone: 814-676-6591 or 877-VENANGO, ext. 1270
E-mail address: eaubele@clarion.edu
Website: www.clarion.edu/venango

Clarion University–Venango Campus is a community in which all students are encouraged to explore their hopes and dreams and to achieve their full potential through participation in collaborative, innovative, and outcome-oriented co-curricular programs and services. Student Affairs promotes student learning and development through the provision of high quality programs and services designed to enhance students’ educational experiences and prepare students to be contributing members of a local community and a global society. Student Affairs offers a variety of services that help students achieve personal, academic, and vocational goals.

Campus Publications

The Venango Voice is a weekly campus publication, produced by students, which contains important calendar information, opinion pieces, articles, and announcements of upcoming events.

Career Services

Mark B. Conrad, coordinator of career services

Montgomery Hall, Venango Campus
Telephone: 814-676-6591 or 877-VENANGO, ext. 1368
Website: www.clarion.edu/venango

The Career Services staff assists students and alumni in all aspects of career exploration, career planning and preparation, and professional development. Venango Campus students are encouraged to use all services including skill and interest assessments, resume and cover letter development, interviewing skills and techniques, portfolio preparation, making career changes, and professional development workshops that cover a variety of career-related topics. Services are designed to help students maximize their employment options. Students receive assistance in selecting a college major or identifying academic interests.

Students are encouraged to gain practical hands-on experience in their fields of study, the community, and the workplace by taking part in Career Service’s job-shadowing opportunities and the employment mentoring program. The services are available in each associate degree program to help students begin exploring their career options early.

Through the Office of Career Services, students have the opportunity to learn more about themselves, their career options, and skills to remain marketable in a changing and competitive workforce.

Child Care

Child care is provided for Venango Campus students and employees, as well as the public, on a full-time, part-time, or drop-in basis. The YMCA Younger Days Child Care Center is located in Montgomery Hall. Financial support is available for qualified students.

Clarion Campus Opportunities

Students are invited to participate in a variety of activities at the Clarion Campus, including Greek life, musical productions, theatre productions, other cultural events, athletics, religious groups, and more.

Empowerment Program

Individually tailored services and accommodations are provided for students who are “at risk” of dropping out of college. Student counseling and academic progress monitoring are available to assist in empowering students to meet their goals and persist in college.

Dining Service

Food services are located in the Robert W. Rhoades Center, which is open Monday through Friday when classes are in session during the fall and spring semesters. Breakfast, lunch, and snacks are offered, including sandwiches, pizza, soups, and more.

Housing

Elizabeth S. Black Hall, Edward V. & Jessie L. Peters Hall, and Michael F. and Joyce I. Hughes Hall are attractive, upscale apartment buildings offering students a private bedroom and a semi-private bathroom, shared kitchen facilities, and living and dining areas. Each apartment is fully furnished and houses four students. Rent includes all utilities including heat, air conditioning, Internet access, cable television, local phone service, and off-street parking. The complex of seven buildings, when complete, will include a mix of two- and three-story buildings housing a total of 136 students. All buildings will include handicap-accessible apartments. A third building, three-storied, opened in Fall 2006, and two additional buildings will open in the next few years.

For more information about on-campus housing, call the Office of Student Affairs, Rhoades Center, at 814-676-6591, ext. 1269.

Learning Support Center

Darlene J. Hartman, coordinator of learning support services

Montgomery Hall, Venango Campus
Telephone: 814-676-6591 or 877-VENANGO, ext. 1343
E-mail address: dhartman@clarion.edu
Website: www.clarion.edu/venango

The Learning Support Center provides an array of academic support services, including the identification and counseling of study skills proficiency; individualized or group assistance/tutoring; academic success workshops, video tapes, handouts and resource materials for the self-motivated learner; computer software for developing mathematics skills, reading comprehension, critical thinking, vocabulary, accounting, anatomy and physiology, word processing, and specific-subject tutorials; learning support groups and supplemental instruction (specifically designed study sessions for selected courses); and adaptive equipment for students with special needs.

Project P.A.S.S. (Promoting Academic Success for Students)

New students are encouraged to participate in the *Project P.A.S.S.* workshops, which are an extended orientation for four weeks each semester. The seminars introduce participating students to important skills such as time management and study techniques and are designed to assist students in making a successful adjustment to college.

Personal Counseling

Students enrolled at Venango Campus have access to confidential professional counseling, support groups, and workshops offered by Counseling Services. The office can help students with concerns related to personal, social, and emotional adjustments. Counselors can also help individuals set developmental, educational, and career goals.

Athletics and Fitness

Each year, students participate in softball, golf, volleyball, basketball, table tennis, pool, and bowling events. Students may also use the recreation and fitness equipment at the Oil City YMCA or use new exercise facilities available in the Robert W. Rhoades Center.

Student Government

The Student Senate, the student governing body at Clarion University–Venango Campus, is comprised of five returning students and four new students, all of whom are elected by the student body. The senate develops a budget for student events that is funded by the student activity fee and makes recommendations to the executive dean in the areas of policy and campus improvements.

Student Health Services

Emergency room visits and emergency ambulance transport to UPMC Northwest Medical Center are provided free-of-charge for Venango Campus students. Laboratory work, X-rays, and prescription drugs are not included, and the student must pay the costs of these services.

Alcohol and drug awareness education/training is available through the Keeling Health Center at the Clarion Campus.

Student Organizations and Events

Involvement is important to gain the most from the college experience. At Venango Campus, student organizations provide an opportunity for networking with other students who share common interests. By taking an active part in an organization, students learn career-related leadership skills and have fun, too. Special interest groups include:

- Adult Learners Organization
- Paralegal Club
- Business Club
- Phi Theta Kappa (academic honorary)
- Campus Activities Board
- Pennsylvania State Education Association (PSEA)
- Psychology Club
- Sigma Theta Tau (national nursing honor society)
- Newspaper and Yearbook Staffs
- Nursing Club
- Outdoor Club
- Ski Club
- Interdenominational Christian Fellowship
- Venango Campus Eagle Ambassadors

A variety of social and cultural events are available at Clarion University–Venango Campus, including nationally-known performers and speakers, dances, service projects, ski and canoe trips, coffeehouses, and much more. Students play an integral part in planning campus events and projects. A variety of leadership workshops, which provide students the opportunity to enhance skills or learn new ones, are offered throughout the year. Many events are family-oriented, and students and families are encouraged to participate.

Charles L. Suhr Library

The Charles L. Suhr Library provides library resources, study facilities, and computers for Venango Campus students. The library contains 40,000 volumes and subscribes to 177 periodicals. A computerized book catalog makes books from Suhr and Carlson libraries readily accessible to students on the Venango Campus. The periodical collection is supplemented by thousands of periodicals that the library makes available online. All library services, described under Libraries, are available to Venango Campus students. The Suhr Library is home to the new Barbara Morgan Harvey Center for the Study of Oil Heritage. More information on Suhr Library is also available at www.clarion.edu/library/suhr.

Venango Parking and Automobile Regulations

Parking regulations, described in the Parking and Automobile Regulations section of this catalog, apply to Venango Campus. Applications for parking permits are available in the Administrative Office and may be used at Venango Campus and in designated commuter parking lots at Clarion Campus. Students at Venango Campus also may park only in designated student parking areas.

The Writing Center

The Writing Center is a laboratory that provides computers, word processing software, and writing tutors to help students with writing assignments.

Academic Programs

Degree Listing

Administration Technology (A.A.S.)
 Allied Health (A.S.)
 Industrial Technology (A.A.S.)
 Arts and Sciences (A.A.)
 Business Administration (A.S.)
 General Management*
 Business Administration (M.B.A.)
 Criminal Justice (A.S.)
 Early Childhood Education (A.S.)
 Legal Business Studies (A.S.)
 Legal Assistant*
 Nursing (A.S.N., B.S.N.)
 Nursing (M.S.N.)
 Family Nurse Practitioner*
 Nursing Education*
 Radiologic Sciences (B.S.)
 Rehabilitative Services (A.S.)
 Respiratory Care (A.S.)
 Special Education (M.S.)

**academic concentrations*

To complete an associate degree, a minimum of 30 credit hours must be completed on the Venango Campus. For Business Administration (A.S.) and Legal Business Studies (A.S.) students, these 30 credits must include the 12 credits required in the concentration and a minimum of 12 credits

from the courses listed under the Business Core. The transfer of a specific associate degree to a specific baccalaureate program may incur deficiencies within the major.

Associate of Applied Science: Administration Technology

The purpose of the Associate of Applied Science in Administration Technology degree is to provide students who have successfully completed, or wish to complete, significant technical education from licensed, certified, accredited, or otherwise qualified technical education organizations an opportunity to earn an associate degree from an institution of higher education. The proposed Associate of Applied Science in Administration Technology degree will:

1. Provide necessary general education for students seeking an Associate of Applied Science degree.
2. Provide appropriate familiarization with the software and office functions of commercial organizations.
3. Provide an associate degree option for persons in technical aspects of general office, insurance, and banking fields that incorporates office and specialty education from appropriate technical education providers.

GENERAL EDUCATION (MINIMAL REQUIREMENT—20 CREDITS):

ENG 111, CIS 217, HPE 111, three credits selected from at least one of the following physical and biological sciences: biology, chemistry, earth science, mathematics, physical science, and physics; three credits selected from at least one of the following social and behavioral sciences: anthropology, economics, geology, history, political science, psychology, and sociology; three credits from at least one of the following arts and humanities: art, English language and literature, humanities, intermediate foreign language and cultures, music, philosophy, speech, and theater.

ADMINISTRATION TECHNOLOGY MAJOR (12 CREDITS): MGMT 120, MGMT 210, plus elective (College of Business preferred) to total 12 credits.

AT 299: Administration Field Training (VAR. 12-30 CREDITS) in any of the following areas: general office administration, insurance, banking

FREE ELECTIVES SUFFICIENT TO TOTAL 60 CREDITS

Associate of Applied Science: Industrial Technology

The purpose of the Associate of Applied Science in Industrial Technology degree is to provide students who have successfully completed, or wish to complete, significant technical training from licensed, certified, accredited, and/or otherwise approved technical education organizations an opportunity to earn an associate degree from an institution of higher education. The Associate of Applied Science in Industrial Technology degree will:

1. Provide necessary general education for students seeking an associate of applied science degree.
2. Provide appropriate familiarization with the management function of industrial business organizations.

3. Provide an associate degree option for persons in technical fields that incorporates industrial training from appropriate technical education providers.

GENERAL EDUCATION (MINIMAL REQUIREMENT—20 CREDITS):

ENG 111, MATH 112 or MATH 131, CIS 217, HPE 111, three credits selected from at least one of the following physical and biological sciences: biology, chemistry, earth science, mathematics, physical science, and physics; three credits selected from at least one of the following social and behavioral sciences: anthropology, economics, geography, history, political science, psychology, and sociology; three credits from at least one of the following arts and humanities: art, English language and literature, humanities, intermediate foreign language and cultures, music, philosophy, speech, and theater.

INDUSTRIAL TECHNOLOGY MAJOR (12 CREDITS): MATH 131, MGMT 120, MGMT 121 or MGMT 227, ACTG 201 or ACTG 251, BSAD 240

INDT 299: Industrial Field Training (VAR. 12-30 CREDITS) in any of the following areas:

- Precision Machining
- Grinding Specialist
- Electromechanical Specialist
- Computer Numeric Control (CNC) Programming
- Building Maintenance Mechanic
- Network System Technician
- Advanced Computer Applications
- Computer Service Technician
- Hardwood Lumber Inspection
- Milling Specialist
- Mold Technology
- Quality Control Technology
- Tool, Die & Mold Technology
- Tooling and Electrical Discharge Machining (EDM) Technology
- Tooling & Machining Technology
- Computer-aided Drawing & Design (CADD)
- Architectural or Mechanical
- Refrigeration, Heating, Ventilation, and Air Conditioning
- Carpentry and Construction Technology
- Welding and Fabrication Technology
- Electricity—Maintenance and Construction or Residential
- Tailored Sequence of Technology Subjects
- Electric Utility Technology

FREE ELECTIVES SUFFICIENT TO TOTAL 60 CREDITS



Associate of Arts: Arts and Sciences

The Associate of Arts is a liberal arts degree program designed to provide the student with a range of experiences and a flexible educational program. To complete an associate degree, a minimum of 30 credit hours must be completed on the Venango Campus.

Suggested Program Outline

- I. Communication (12)*
 - ENG 111 Writing II
 - MATH 112 Excursions in Mathematics
 - CMST 113 Public Speaking
 - CIS 110 Introduction to Computer Information Systems
 - II. Humanities (12)*
 - MUS 111 Introduction to Music
 - ART 110 The Visual Arts
 - ENG 130 The Literary Experience
 - CMST 253 Introduction to the Theatre
 - III. Natural Science (12)*
 - BIOL 111 Basic Biology
 - PHSC 111 Basic Physical Science—Chemistry
 - PHSC 112 Basic Physical Science—Physics and Astronomy
 - ES 111 Basic Earth Science
 - IV. Social Science (12)*
 - PSY 211 General Psychology
 - SOC 211 Principles of Sociology
 - HIST 112 Early Modern Civilization
 - PS 211 American Government
 - V. Personal Development (2)
 - VI. Free electives (10)
- TOTAL: 60

*Because this is a liberal arts degree, substitution by equivalent course within the area of study is allowable with the permission of the academic advisor.

Associate of Science: Early Childhood Education

The Associate of Science Degree in Early Childhood Education is designed to provide students with the knowledge and skills necessary to work directly with children from birth through age eight. Graduates from the associate degree program are educated to work with families and other professionals in a variety of child care-early education settings such as Head Start, child care centers, child development programs, public education classrooms, and early intervention programs. The program provides a strong foundation for individuals desiring to continue their education at the baccalaureate level.

The associate degree program is offered through a combination of live classroom and Web-based instruction to provide the maximum flexibility for employed individuals. The program is designed to be completed on a part-time basis over a four-year period. The following program outline must be followed.

Sequence for Early Childhood Curriculum

<i>FIRST SEMESTER</i>	ENG 111 and AE 100
<i>SECOND SEMESTER</i>	One three-credit liberal education elective
<i>SUMMER SESSION</i>	One three-credit arts & humanities elective
<i>THIRD SEMESTER</i>	ED 121, ECH 240, and HPE 111
<i>FOURTH SEMESTER</i>	ECH 235 and one three-credit physical/biological science elective
<i>SUMMER SESSION</i>	ECH 231
<i>FIFTH SEMESTER</i>	ECH 320 and one three-credit arts and humanities elective
<i>SIXTH SEMESTER</i>	ECH 322 and Math 111 or equivalent from other university (required)
<i>SUMMER SESSION</i>	ECH 323
<i>SEVENTH SEMESTER</i>	ECH 413 and one three-credit social/behavioral science elective
<i>EIGHTH SEMESTER</i>	HPE 410 and one three-credit physical/biological science elective

Associate of Science: Business Administration

The Associate of Science in Business Administration is designed to provide an opportunity in post-secondary education not found elsewhere within the service area of Clarion University. After earning the associate degree, students who wish to further their education may continue at the baccalaureate level on the Clarion Campus.

Objectives

1. Ensure that each student has an exposure to general education and business fundamentals appropriate for associate-level degree education in business administration.
2. Prepare associate degree students for entry-level positions in business, industry, and government. Graduates may find jobs in sales, marketing, finance, or administrative areas of business.
3. Prepare aspiring students for entry into baccalaureate degree programs.

GENERAL EDUCATION (MINIMAL REQUIREMENT—20 CREDITS): ENG 111, CMST 113, HPE 111, PSY 211 or SOC 211, and nine credits of general education electives. Note: if ENG 110 is required as a result of the placement examination, it will be used as three credits of the general education electives.

BUSINESS CORE SUBJECTS (27 CREDITS): MATH 131, ECON 211, CIS 217, MGMT 120, ACTG 251, ACTG 252, BSAD 240, ENG 307, and ECON 221.

GENERAL BUSINESS MANAGEMENT CONCENTRATION (15 CREDITS): BSAD 241, FIN 170, MGMT 121, MGMT 227, and a three-credit business elective.

Associate of Science: Legal Business Studies

The Associate of Science in Legal Business Studies offers a program designed to educate students to render direct assistance to lawyers, clients, and courts, whether in a law office, governmental institution, or as an independent contractor, when authorized to do so by administrative, statutory, or court authority. All of the courses required for this degree are offered at Venango Campus. Some of the courses also are offered at Clarion Campus.

Academic Requirement

The program is divided into three blocks of required courses. The general education and business core classes are required of all Associate of Science candidates to develop their ability to work and live as well-rounded and competent individuals in the business environment. The remaining courses are specialized legal courses designed to develop competence in substantive and procedural law.

GENERAL EDUCATION (MINIMAL REQUIREMENT—23 CREDITS): ENG 111, CMST 113, HPE 111, PSY 211, ECON 211, MATH 131, ENG 307, and a three-credit general education elective. Note: The general education electives must be selected from an approved list of general education courses. This list is available from the director of Legal Business Studies and can be viewed on the program’s Website at <http://www.clarion.edu/coba/finance/aa-legal.htm>.

BUSINESS CORE (21 CREDITS): ACTG 251, 252; BSAD 240, 241; CIS 217; ECON 221, and MGMT 120.

LEGAL ASSISTANT CONCENTRATION (21 CREDITS): BSAD 238, 242, 246, 248, 249; and one of the following courses: BSAD 239, 243, 244, 247.

FREE ELECTIVE (3 CREDITS): Students should use their free elective to tailor the Legal Business Studies degree to their individual career preference. The choice may be a law specialty course not counted in the concentration, political science, philosophy, or any other general education course of interest.

Associate of Science: Rehabilitative Services

The Associate of Science in Rehabilitative Services trains people to work in paraprofessional roles with people with special needs in human service agencies. They include, but are not limited to, the roles of life skills worker, life coach, classroom assistant, and human development assistant. Because these roles vary, the program offers both specialized and generic competencies. The two-year program culminates with a supervised field experience in a human service agency. Students who enroll in the associate degree program will work with nationally recognized faculty in the field. Qualified students who have earned a 2.5 QPA may continue their study toward a bachelor’s degree in special education or rehabilitative sciences and receive credit toward graduation for courses taken while earning the associate degree.

GENERAL EDUCATION		Cr.
ENG 111	Writing II	3
CMST 113	Public Speaking	3
PSY 111	Psychology of Adjustment	3
PSY 211	General Psychology	3
PSY 260	Developmental Psychology	3
ED 122	Educational Psychology	3
SOC 211	Principles of Sociology	3
	Related electives	3
	Electives: humanities and natural science	3
	General or free elective	6
	TOTAL	36
SPECIAL EDUCATION		
REHB 126	Intro to Human Services	3
REHB 211	Paraprofessionals in Education and Health Services	3
REHB 227	Neurological Impairments and Physical Disorders	3

SPED 220	Nature of Mental Retardation	3
SPED 230	Social and Emotional Disturbances	3
SPED 235	Specific Learning Disabilities	3
SPED 245	Applied Behavior Analysis	3
REHB 250	The Helping Relationship: Principles and Procedures	3
REHB 295	Field Experience	6
REHB 296	Seminar for Field Experience	1
	TOTAL	28

Suggested Sequence**FIRST SEMESTER**

REHB 126	Intro to Human Services	3
ENG 111	Writing II	3
CMST 113	Public Speaking	3
PSY 211	General Psychology	3
	TOTAL	12

SECOND SEMESTER

PSY 111	Psychology of Adjustment	3
PSY 260	Developmental Psychology	3
SPED 220	Nature of Mental Retardation	3
SPED 230	Social and Emotional Disturbances	3
SPED 235	Specific Learning Disabilities	3
	Elective: humanities or natural sciences	3
	TOTAL	18

THIRD SEMESTER

REHB 227	Neurological Impairment and Physical Disorders	3
SOC 211	Principles of Sociology	3
ED 122	Educational Psychology	3
SPED 245	Applied Behavior Analysis	3
	Electives: humanities or natural sciences	6
	TOTAL	18

FOURTH SEMESTER

REHB 250	The Helping Relationship: Principles and Procedures	3
REHB 295	Field Experience	6
	Related electives	3
	Elective: general elective	3
REHB 296	Seminar for field experience	1
	TOTAL	16

Criminal Justice Courses**CRJT 110: INTRODUCTION TO CRIMINAL JUSTICE****3 s.h.**

Provides an overview of the justice system including processing offenders. Examines the nature of criminal law, causes of criminal behavior, and discusses the roles of various agencies including police, courts, and corrections. Fall and Spring semesters.

CRJT 235/SOC 236: CRIMINOLOGY**3 s.h.**

Examines historical and contemporary attempts to explain the origins of criminal behavior and society's reaction to it from a variety of perspectives. Provides an understanding of how these theories have influenced the present criminal justice system. Annually.

CRJT 245: CORRECTIONS**3 s.h.**

Provides students with an overview and analysis of the management and organization of correctional institutions. Discusses current practices and trends in the area of corrections including treatment of offender personalities. Annually.

CRJT 255: JUVENILE JUSTICE**3 s.h.**

Examines the formal and informal methods of dealing with the problems of juvenile crime, including the ways in which procedures differ from those involving adult offenders. Provides an analysis of recent trends in juvenile courts and the control and treatment of juvenile offenders. Annually.

CRJT 260: POLICING**3 s.h.**

Provides an overview of issues in policing and law enforcement as well as an examination of the practices of police agencies in the United States. Examines organizational structures for delivering police services and issues concerning police and community interactions. Annually.

CRJT 265: CRIMINAL PROCEDURE**3 s.h.**

A study of law as it relates to arrest, search, and seizure with emphasis on present controlling legal decisions and historical development, philosophy, and public policy issues underlying these decisions. Annually.

CRJT 275: SUBSTANTIVE CRIMINAL JUSTICE LAW**3 s.h.**

Examination of the preliminary crimes of solicitation, conspiracy, and attempt. An analysis of the specific elements of crimes against the person and crimes against property. A consideration of defenses to alleged criminal behavior is also undertaken. Annually.

**Associate of Science:
Criminal Justice**

The Associate of Science in Criminal Justice is designed to provide students with the knowledge and skills necessary to work within the criminal justice system. Graduates from the program will be prepared to seek entry-level positions in municipal, county, and state police agencies. Additionally, students can pursue careers as correctional officers or as support-level staff in juvenile residential facilities. Moreover, positions within the private safety/loss prevention sector may be available.

GENERAL EDUCATION

CR.

ENG 111	Writing II	3
	Math Proficiency	3
	Liberal Education Skills	3
	Physical and Biological Sciences	3-4
	Social and Behavioral Sciences	3
	Arts and Humanities	3
HPE 111	.....	2
	TOTAL	20-21

CRIMINAL JUSTICE**Required Courses—21 Credits**

CRJT 110	.....	3
CRJT 235/SOC 236	.....	3
CRJT 245	.....	3
CRJT 255	.....	3
CRJT 260	.....	3
CRJT 265	.....	3
CRJT 275	.....	3

Related Courses—9 credits (Choose three from the following)

MGMT 121	.....	3
PS 211	.....	3
PSY 111	.....	3
PSY 211	.....	3
PSY 354	.....	3
SOC 211	.....	3
SOC 351	.....	3
SOC 361	.....	3

General Course Offerings

NOTE: Certain courses listed below are applicable to major fields. Students should consult the university catalog and their advisors to determine which courses should be taken for specific majors.

College of Arts and Sciences

ANTH	211	Anthropology	3
AS	100	College Reading/Study Skills	2
ART	110	The Visual Arts	3
ART	190	Teaching Art in the Elementary Grades	3
BIOL	111	Basic Biology	4
BIOL	200	Selected Topics	
BIOL	201	Basic Forensic Science	2
BIOL	258	Anatomy and Physiology I	3
BIOL	259	Anatomy and Physiology II	3
BIOL	260	Microbiology	3
BIOL	453	Pathophysiology: Endogenous Agents	4
BIOL	454	Pathophysiology: Exogenous Agents	4
CHEM	153	General Chemistry I	3
CHEM	163	General Chemistry Laboratory I	1
CHEM	154	General Chemistry II	3
CHEM	164	General Chemistry Laboratory II	1
CHEM	205	Nutrition	3
MMAJ	100	Explorations in Mass Communication	3
MMAJ	101	Message Design	3
MMAJ	140	Writing for the Media	3
CIS	110	Introduction to Computer Information Systems	3
CIS	217	Applications of Microcomputers	3
CIS	223	Computer Programming COBOL	3
CIS	226	Computer Systems Dev. with High-Level Tools	3
CIS	324	Data Structure and File Utilization COBOL	3
ENG	110	Writing I	
ENG	111	Writing II	3
ENG	130	The Literary Experience	3
ENG	244	Special Topics	
ENG	200	Composition and Literature	3
ENG	263	English Grammar and English Usage	3
ENG	307	Business Writing	3
ES	111	Basic Earth Science	3
GEOG	100	Introduction to World Geography	3
GEOG	257	Geography of the United States and Canada	3
HIST	111	Ancient and Medieval Civilization	3
HIST	112	Early Modern Civilization, 1300 to 1815	3
HIST	113	Modern Civilization, 1789 to the Present	3
HIST	120	United States History to 1877	3
HIST	121	United States History Since 1877	3
HIST	215	Topics in History - History of the Sixties	3
HIST	277	Vietnam: War and Peace	3
HIST	354	Recent American History	3
HUM	120	Humanities I: Antiquity Through the Middle Ages	3
HUM	121	Humanities II: The Renaissance to the Present	3
MATH	050	Basic Algebra	3
MATH	110	Intermediate Algebra	3
MATH	111	Mathematical Concepts in Grades K-8	3
MATH	112	Excursions in Mathematics	3
MATH	131	Applied Finite Mathematics	3
MATH	222	Elementary Nonparametric Statistics	3
MATH	232	Calculus for Business I	3
MUS	111	Introduction to Music	3
MUS	131	Fundamentals of Music	3
PHSC	111	Basic Physical Science: Chemistry	3
PHSC	112	Basic Physical Science: Physics and Astronomy	3
PHIL	111	Logic and Inquiry	3
PHIL	211	Introduction to Philosophy	3
PSY	211	General Psychology	3
PSY	225	Psychology of Adjustment	3
PSY	228	Human Behavior in Organizations	3
PSY	260	Developmental Psychology	3

PSY	331	Child Psychology	3
PSY	354	Abnormal Psychology	3
PS	210	Introduction to Political Science	3
PS	211	American Government	3
SOC	211	Principles of Sociology	3
CMST	113	Public Speaking	3
CMST	200	Interpersonal Communication	3
CMST	214	Business and Professional Speaking	3
CMST	225	Communication and Conflict	3
CMST	253	Introduction to Theatre	3

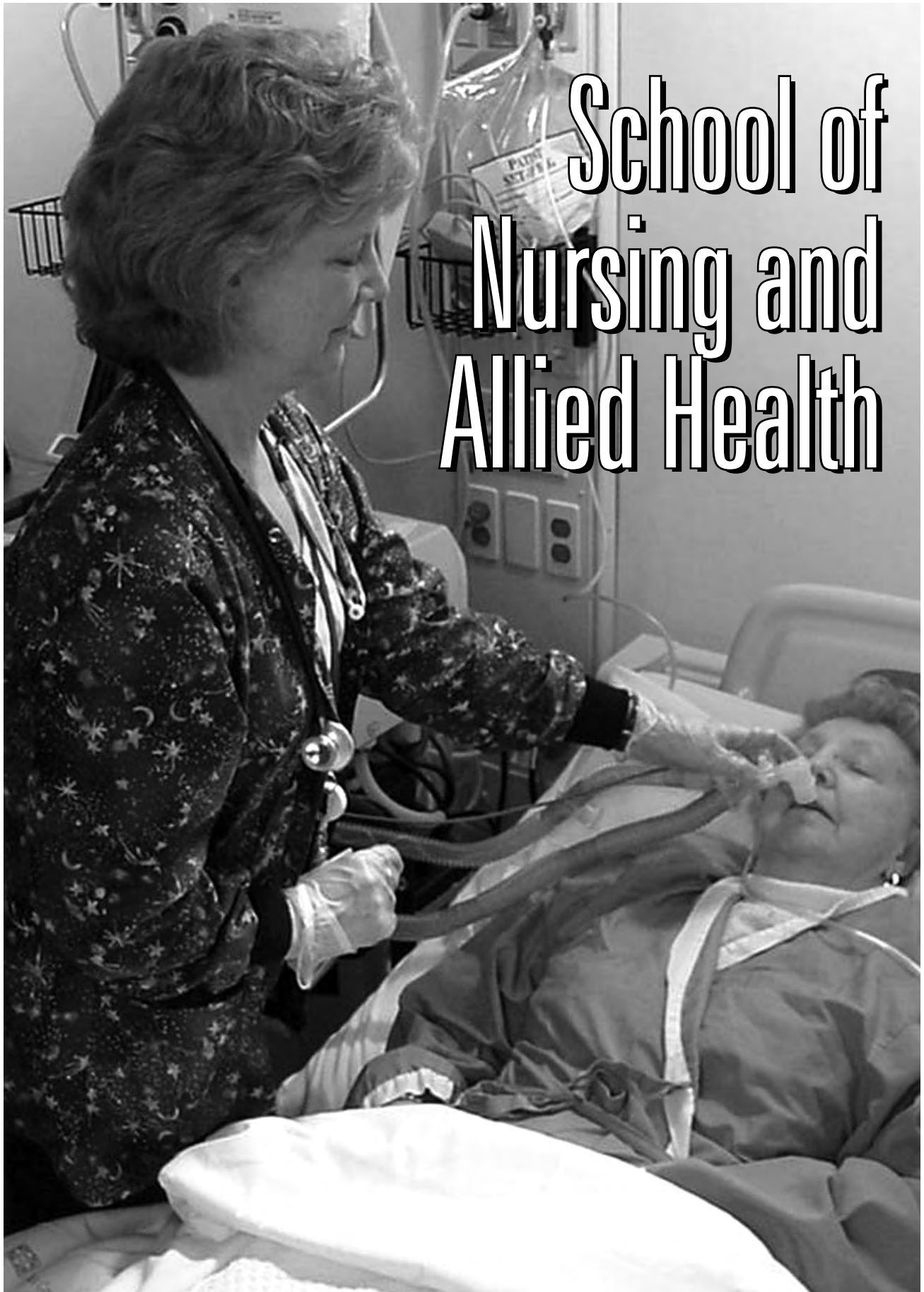
College of Business Administration

ACTG	251	Financial Accounting	3
ACTG	252	Managerial Accounting	3
ACTG	253	Factory Accounting	3
ACTG	254	Payroll Accounting	3
ACTG	255	Financial Statement Preparation and Analysis	3
ACTG	256	Income Tax Procedures and Forms	3
ECON	211	Principles of Macroeconomics	3
ECON	212	Principles of Microeconomics	3
ECON	221	Economic and Business Statistics I	3
FIN	170	Introduction to Finance	3
BSAD	238	Introduction to Paralegal Studies	3
BSAD	239	Family Law	3
BSAD	240	Legal Environment I	3
BSAD	241	Legal Environment II	3
BSAD	242	Methods of Legal Research	3
BSAD	243	Wills, Trusts, and Estates	3
BSAD	244	Administrative Law	3
BSAD	246	Civil Litigation	3
BSAD	247	Real Estate Law for the Paralegal	3
BSAD	248	Legal Writing	3
BSAD	249	Field Experience	3
MGMT	120	Introduction to Business	3
MGMT	121	Fundamentals of Management	3
MGMT	210	Essentials of Entrepren and Small Business Mgmt	3
MGMT	227	Applied Supervision	3
MGMT	228	Human Behavior in Organizations	3
MGMT	321	Organization Theory and Behavior	3

College of Education and Human Services

ED	110	Introduction to Education	3
ED	121	Human Development and Learning	3
ED	122	Educational Psychology	3
ED	217	Microcomputer Applications in the Classroom	3
ECH	231	Creativity in the Early Childhood Curriculum	3
ECH	235	Observation and Assessment in ECH setting	3
ECH	240	Nutrition and the Young Child	1
ECH	320	Developing Bases for Learning and Teaching	3
ECH	323	Language, Literature & The Young Child	3
ECH	325	Young Children as Theory Builders	3
ECH	413	Interactions in Early Childhood Setting	3
ECH	420	I & A in Early Childhood Setting	3
HPE	111	Health Education	2
HPE	121	Walking for Fitness	1
HPE	142	Bowling	1
HPE	163	Volleyball	1
HPE	314	Cardiopulmonary Resuscitation	1
HPE	317	First Aid and Safety	2
HPE	410	Motor Development and Learning	3
REHB	110	Human Exceptionalities	3
REHB	115	Human Relations	3
REHB	227	Neurological Impairments and Physical Disorders	3
SPED	220	Nature of Mental Retardation	3
SPED	230	Social and Emotional Disturbances	2
SPED	235	Specific Learning Disabilities	2
SPED	245	Behavior Management	3
SPED	250	The Helping Relationship: Prin. & Procedures	3
SPED	295	Field Experience	6

School of Nursing and Allied Health



School of Nursing and Allied Health

Christopher M. Reber, Ph.D., dean

Kathleen T. Patterson, Ph.D., M.S.N., director

School of Nursing and Allied Health

220 Montgomery Hall, Venango Campus

Telephone: 814-676-6591 or 877-VENANGO, ext. 1258

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Website: www.clarion.edu/departments/nurs/

Department of Nursing

Joyce E. Keenan, C.R.N.P., M.S.N., R.N.C., chair

Department of Nursing

215 Montgomery Hall, Venango Campus

Telephone: 676-6591, ext. 1257

E-mail address: jkeenan@clarion.edu

Website: www.clarion.edu/departments/nurs/

Associate Professors: Pritchett, Ciesielka

Assistant Professors: Falvo, Keenan, London, Moore, Stephenson, Tarr, West

Instructor: Seybold

Accreditation

National League for Nursing Accrediting Commission (NLNAC)

Degree Listing

Family Nurse Practitioner and Nurse Educator (M.S.N.)

Joint Clarion/Edinboro/Slippery Rock Universities

Clarion University–Venango Campus, Oil City, Pa.

Clarion University, Clarion Campus, Clarion, Pa.

Clarion University–Pittsburgh Site, Pittsburgh, Pa.

Edinboro University, Edinboro, Pa.

Slippery Rock University, Slippery Rock, Pa.

Slippery Rock University–Cranberry Site, Cranberry, Pa.

Nursing (A.S.N., M.S.N.)

Nursing-RN Completion Program on-line (B.S.N.)

Nursing-RN-MSN Completion Program (B.S.N., M.S.N.)

Public School Nursing (K-12 certification)

Post-Master's Certificate (Nurse Education, F.N.P.)

Health care in the new millennium demands that nursing expand its caregiver focus to include highly specialized roles in health promotion, illness prevention, and care of the sick. The nursing faculty have met this challenge by developing nursing curricula that assimilate the changes and complexities inherent in today's society. Clarion University offers an associate degree program at Venango Campus that prepares students to become licensed registered nurses (RNs). An on-line baccalaureate degree program for RNs, prepares its graduates to practice nursing at the professional level. Both the Associate of Science in Nursing (A.S.N.) and the Bachelor of Science in Nursing (B.S.N.) programs are accredited by the National League for Nursing Accrediting Commission (NLNAC).



Clarion's A.S.N. Program offers comprehensive and intensive nursing education that provides theory and clinical nursing courses and general education credits. The A.S.N. program prepares technical nurses to deliver client-centered care within structured settings such as hospitals, nursing homes, and outpatient facilities and to work effectively with other members of the health care team. The program provides a foundation for further study at the baccalaureate level.

Clarion's B.S.N. Program builds upon technical associate degree and diploma nursing curricula, offering credit for previous education. The B.S.N. program provides professional education in expanded settings that promotes critical and creative decision making. Professional nurses are prepared for leadership roles and professional advancement and for study at the master's degree level.

The undergraduate and graduate nursing programs reflect Clarion University's dedication to excellence. Nursing education continues to expand the practice of nursing to include nurse researchers, clinical specialists, nurse practitioners, nurse midwives, educators, and administrators.

Program Information

The Department of Nursing offers curricula leading to the degrees of Associate of Science in Nursing, Bachelor of Science in Nursing, and Master of Science in Nursing. For full information concerning the Master of Science in Nursing program, refer to the *Graduate Catalog*, which can be obtained from the Graduate Office, Carrier Administration Building, Clarion University, 840 Wood Street, Clarion, PA 16214-1232.

The Department of Nursing has an articulated program between the Associate of Science in Nursing and Bachelor of Science in Nursing degrees. After completing the first two years, the student will have earned an Associate of Science in Nursing degree and be eligible to take the National Council Licensure Examination (NCLEX) to become a registered nurse (RN). Upon completion of an additional four semesters, the student will earn a Bachelor of Science in Nursing degree.

Associate of Science in Nursing

Clarion's Associate of Science in Nursing (A.S.N.) Program offers both a comprehensive and intensive form of nursing education in a balanced curriculum of nursing and liberal arts. Because nursing courses are offered once a year and in a particular sequence, applicants are admitted only in the Fall Semester. Although there is a recommended curriculum plan, only the nursing courses must be taken in an identified order. The general education courses may be taken prior to entrance into the nursing program according to the needs of the individual and the established university prerequisites. In addition to the nursing and general education courses at the university, students engage in concurrent clinical practice at a variety of community health care agencies.

The A.S.N. Program is designed to prepare technical nurses to give client-centered care within structured settings and to work effectively with other members of the health team. The two-year Associate of Science in Nursing program provides the graduate with a foundation for further study at the baccalaureate level. Upon completion of the A.S.N. program, the graduate will be eligible to take the state licensure examination.

Bachelor of Science in Nursing (on-line)

Clarion's on-line Bachelor of Science in Nursing (B.S.N.) program builds upon the background and knowledge attained in an A.S.N. or diploma program and requires an additional four semesters of education. Applicants for the B.S.N. program may be admitted for either Spring or Fall semesters. Although the program is designed as a two-year curriculum for full-time students, individuals have the option of taking courses part-time after admission.

The B.S.N. Program's primary goal is to provide educational experiences designed to promote scientific inquiry, creative thinking, critical judgment, and personal and professional development. The program affords students the opportunity to expand their nursing knowledge at a professional level. This program prepares graduates for professional advancement in the health care system and provides a basis for graduate study.

Department of Nursing Policies

Academic Requirements in Nursing

The academic requirements of the university apply to all programs in the School of Nursing, and the student must earn a grade of C in each of the following nursing courses: NURS 101, 102, 201, 202, 203, 131, 132, 340, 342, 346, 361, 357, 376, 380, 445, 470, and 480. A passing grade is required in all clinical courses: NURS 111, 112, 121, 211, 212, and 481.

All nursing students are graded P (passing) or F (failing) in each clinical practicum. The associate degree student is evaluated by four critical elements that must be met in order to receive a passing grade in the clinical area. An evaluation tool based on program and course objectives evaluates the baccalaureate student's clinical performance.

An unsatisfactory grade in any nursing course is regarded as a failure in the program, and the student is withdrawn from nursing.

Transfer

The transfer policy for A.S.N. students is consistent with that of Clarion University, however, **nursing credits are transferable only if received from an accredited associate degree or bachelor's degree program within the preceding two years and are determined to be equivalent to a Clarion nursing course.** If the individual has been out of a nursing program for more than two years, the NLN-Accelerated Credit Exam must be taken for transfer of credits. Diploma students who wish to transfer **must** take the challenge exams for transfer of nursing credits.

Intercollegiate Transfer

A student presently enrolled in a program at Clarion University may request admission into the Associate of Science in Nursing program by filling out a Change of Status Form and submitting it to the School of Nursing at Venango Campus.

1. A student must have the Change of Status Form completed and sent to the School of Nursing by **December 15** to be considered for admission to the program in the next fall class.
2. NLN pre-admission testing and information sessions will be scheduled for prospective students.
3. Students requesting intercollegiate transfer must meet the general admission requirements of the nursing program.

Associate of Science in Nursing Program

Specialized Admission Requirements

Candidates for admission into the Associate of Science in Nursing Program must make application to the Admissions Office at Clarion University. All candidates are required to meet the following high school requirements:

- four units of English
- three units of social studies
- two units of science: one year of chemistry with a grade of C or better and one year of biology with a grade of C or better within five years of date of entry (calculated from the date of high school graduation).
- two units of mathematics (one must be **algebra** with a grade of C or better and one course may be algebra II, trigonometry, geometry, or calculus). These courses must have been taken within five years of date of entry (calculated from the date of high school graduation).

Candidates who **do not** meet all the high school requirements or have not taken the equivalent college level course(s) from a properly accredited institution and earned a grade of C or better must take the following courses.

1. To satisfy the science requirement, an individual must complete BIOL 111 Basic Biology **or** BIO 115



Introductory Biology **and** PHSC 111 Physical Science Chemistry or CHEM 153 General Chemistry I **and** CHEM 163 General Chemistry I Lab. These science courses are pre-requisite courses for admission into the A.S.N. program. (College credits for the sciences are acceptable only if they have been earned within 10 years of admission and received from a properly accredited institution.)

2. To satisfy the English requirement, an individual student must take ENG 111 Writing II.
3. To satisfy the mathematics requirement, an individual will need to take MATH 050 Basic Algebra. The course is pre-requisite to both the nursing program and the math course required to meet the General Education requirements for an associate degree from Clarion University. (A placement test may be necessary for determining the necessary math course. Based on the results of this exam, the individual will either be exempt from MATH 050 or be required to take the course. (College credits for mathematics are acceptable only if they have been earned within 10 years of admission from a properly accredited institution.)

Admission Policies for Entrance

Applicants who satisfy all high school criteria will be considered for admission into the A.S.N. program. Admission to the program is very competitive. Admission procedures for the A.S.N. program include:

1. having been accepted by Clarion University. (See Clarion University Admissions requirements on page 15 in the catalog);
2. a QPA of 2.0 in high school and/or college;
3. completion of **pre-requisite courses** (biology, math, and chemistry) with a grade of C or better;

4. requesting admission into the A.S.N. program. (For new students, this requires a letter of application which **must** be received in the nursing office **no later than December 15**. For currently enrolled Clarion students, a change of status form **must** be completed and received in the nursing office **no later than December 15**;
5. having **official** transcripts from high school and **all** colleges or universities previously attended sent to the admissions office at Clarion University, 840 Wood Street, Clarion, PA 16214;
6. having taken or scheduled the National League for Nursing (NLN) Pre-Entrance Examination (LPNs and applicants with bachelor’s degrees are exempt from this testing);
7. submitting an essay of 250 words or less which addresses the applicant’s interest in nursing (**must** be received in the nursing office no later than **December 15**).

Please be aware, the Department of Nursing’s admissions committee will consider for Fall admission only those applicants who have met the above criteria. Note also the university designation as “pre-nursing” **does not** guarantee acceptance into the ASN program.

Articulation Policy

Licensed practical nurses who have graduated within three years from an NLNAC-accredited nursing program are eligible for direct articulation into Clarion’s A.S.N. program. Individuals who have graduated between three and 10 years prior to application must have 1,000 hours of nursing practice within the last three years for direct articulation. Special arrangements are made for individuals who have:

- (1) graduated from a non-NLNAC accredited nursing program;
- (2) practiced nursing less than 1,000 hours within three years of application;
- (3) graduated from a NLNAC-accredited nursing program more than 10 years ago.

Associate of Science in Nursing Degree Program Curriculum

Although the Associate of Science in Nursing is designed to be completed in two academic years, part-time study is available. The curriculum outline for the program is as follows.

	<i>FIRST SEMESTER</i>	<i>Credits</i>
NURS 101	Nursing Process I: Fundamentals of Nursing	3
NURS 111	Nursing Process I: Fundamentals of Nursing Clinical Practice	2
NURS 121	Nursing Process I: Fundamentals of Nursing Practice Laboratory	1
NURS 131	Nursing Health Assessment	2
BIOL 258	Anatomy and Physiology I	3
PSY 211	General Psychology	3

SECOND SEMESTER		<i>Credits</i>
NURS 102	Nursing Process II	4
NURS 112	Nursing Process II Clinical Practice	4
NURS 132	Pharmacological Aspects of Nursing	2
BIOL 259	Anatomy and Physiology II	3
PSY 260	Developmental Psychology	3

THIRD SEMESTER		<i>Credits</i>
NURS 201	Nursing Process III	4
NURS 211	Nursing Process III Clinical Practice	4
MATH	Any math course greater than MATH 110	3
SOC 211	Principles of Sociology	3
ENG 111	Writing II	3

FOURTH SEMESTER		<i>Credits</i>
NURS 202	Nursing Process IV	4
NURS 212	Nursing Process IV Clinical Practice	4
NURS 203	Trends and Issues in Nursing	2
SC 113	Public Speaking	3

TOTAL CREDITS 60

Bachelor of Science in Nursing Program—On-line

Admission Requirements

Admission into the Bachelor of Science in Nursing completion program is consistent with the Pennsylvania Articulation Model developed by the Pennsylvania Higher Education Nursing Schools Association Inc. (PHENSA). Nursing students can fulfill requirements of the lower division (freshman and sophomore years) by means of the following:

1. Transferring or validating knowledge equivalent to 30 nursing credits from an associate degree or diploma program (see 4 below).
2. Transferring the **required general education credits** from any accredited college or successfully completing the approved challenge exams. The accepted scores for credit will be determined by university policy.

Admission Policies for Entrance

1. Graduate from either an associate degree or diploma program in nursing.
2. Hold current licensure as an RN.
3. Show evidence of scholarship as demonstrated by 2.5 QPA (on a 4.0 system), or a comparable equivalent of a C-plus in previous educational program.
4. Successfully complete the pre-entry lower-division requirements as mentioned above.

Individuals may be admitted to the B.S.N. completion program on a conditional basis while in the process of completing the above requirements. Admission into the Bachelor of Science in Nursing program is competitive. An applicant meeting all of the program admission requirements is not guaranteed admission into the program.

Articulation Policy

Registered nurses who have graduated within three years from an NLNAC-accredited nursing program are eligible for direct articulation into Clarion's B.S.N. completion program. Individuals who have graduated between three and 10 years prior to application must have 1,000 hours of nursing practice within the last three years for direct articulation. Special arrangements are made for individuals who have:

- (1) graduated from a nursing program not accredited by the NLNAC.
- (2) practiced nursing less than 1,000 hours within three years of application.
- (3) graduated from an NLNAC-accredited nursing program more than 10 years ago.

B.S. in Nursing Curriculum

Junior and Senior Years

FIRST SEMESTER		<i>Credits</i>
NURS 340	Nursing in Transition	3
NURS 361	Nurse as Educator	3
CIS 217	Applications of Microcomputers	3
	*Elective	3
	*Elective	3

SECOND SEMESTER		<i>Credits</i>
NURS 342	Thinking in Contemporary Nursing	3
NURS 346	Health Assessment	2
NURS 357	Leadership in Nursing	3
NURS 380	Statistics	3
BIOL 453	Pathophysiology: Endogenous Agents	4

THIRD SEMESTER		<i>Credits</i>
NURS 376	Frontiers in Health Care	3
NURS 445	Inquiry in Nursing	3
NURS 470	Promoting Healthy Communities	3
	Nursing Elective	3
	Arts and Humanities Elective	3

FOURTH SEMESTER		<i>Credits</i>
NURS 480	Role Seminar in Professional Nursing	3
NURS 481	Role Practicum in Professional Nursing	2
	Nursing Elective	3
	Arts and Humanities Elective	3
	*Elective	3
	*Elective	1
TOTAL CREDITS FOR GRADUATION		120

**Individuals desiring School Nurse Certification must take ED 110: Introductions to Education and *ED 122: Educational Psychology as electives, and NURS 351: Public School Nursing as a nursing elective or a free elective.*

School Nurse Certification

Individuals seeking school nurse certification are required to complete the curriculum requirements of the Bachelor of Science in Nursing program and the current requirements of the Pennsylvania Department of Education. Upon receipt of the degree, the graduate is recommended for certification as a school nurse in all grades of the Pennsylvania public schools.

Nursing Courses

Nursing Associate Degree Courses

- NURS 101:** *NURSING PROCESS I: FUNDAMENTALS OF NURSING PRACTICE* **3 s.h.**
 Introduces students to the concepts of individual, health, and environment. Emphasizes the nursing process as the basis for client-centered care. Provides the theoretical foundation for the development of cognitive, psychomotor, and communication skills necessary to care for clients and promote healthy responses. Examines the needs of culturally diverse individuals within the context of their functional health patterns. Three lecture hours per week. Prerequisites or co-requisites: BIOL 258 and PSY 211. Co-requisites: NURS 111, 121, and 131. Fall, annually.
- NURS 102:** *NURSING PROCESS II* **4 s.h.**
 Focuses on the application of the nursing process in acute care settings to individuals across the life span. Explores the nursing process as it relates to the care of clients in crisis from rape/sexual assault/domestic violence and clients with ineffective response to crisis (chemical dependency/suicide). Considers the nursing care of clients with musculoskeletal, gastrointestinal, and gynecologic dysfunction. The last portion of the class focuses on human reproduction in health and illness. Four class hours weekly. Prerequisites: A minimum grade of C in BIOL 258 and NURS 101 and 131 and "Pass" in NURS 111 and 121. Co-requisites: NURS 112, BIOL 259, and PSY 260. NURS 132 can be taken as a prerequisite or a co-requisite. Spring, annually.
- NURS 111:** *NURSING PROCESS I: FUNDAMENTALS OF NURSING CLINICAL PRACTICE* **2 s.h.**
 Clinical practice experience provides opportunities for the student to implement the objectives identified in NURS 101 and 131. Students care for elderly and/or chronically ill clients who require basic nursing interventions in long-term care settings. Six clinical hours weekly. Co-requisites: NURS 101, 121, and 131. Fall, annually.
- NURS 112:** *NURSING PROCESS II: CLINICAL PRACTICE* **4 s.h.**
 Clinical practice experience provides opportunities for the student to implement the objectives identified in NURS 102 and 132. Students care for clients in crisis and clients across the life span having musculoskeletal, gastrointestinal, and gynecologic dysfunction. Provides clinical experience in the obstetrical setting with mothers and newborns. Offers increased opportunities for medication administration. Twelve clinical hours weekly. Co-requisites: NURS 102 and 132. Prerequisites: Minimum grade of C in BIOL 258 and NURS 101 and 131 and a "Pass" in NURS 111 and 121. Spring, annually.
- NURS 121:** *NURSING PROCESS I: FUNDAMENTALS OF NURSING PRACTICE LAB* **1 s.h.**
 Provides students with the opportunity to learn basic nursing skills required to deliver nursing interventions to clients experiencing alterations in their health status. Enables nursing students to acquire beginning skills and confidence through practice in the college learning laboratory. Three laboratory hours weekly. Pass/Fail. Co-requisites: NURS 101 and 111. Prerequisite or co-requisite: NURS 131. Fall, annually.
- NURS 131:** *NURSING HEALTH ASSESSMENT* **2 s.h.**
 Teaches students beginning skills in assessing the health of clients through health histories and physical examinations. Provides students with opportunities to practice assessment skills. Required of all A.S.N. students. Open to any student with permission of the instructor. Fall, annually.
- NURS 132:** *PHARMACOLOGICAL ASPECTS OF NURSING* **2 s.h.**
 Presents principles of pharmacology with practical application to the care of clients. Emphasizes major drug classifications, actions/interactions, side effects, and related nursing interventions. Introduces learning strategies to develop student abilities in making critical assessments and decisions about pharmacological interventions. Required of all A.S.N. students. Open to any student with permission of the instructor. Spring, annually.
- NURS 201:** *NURSING PROCESS III* **4 s.h.**
 Focuses on the application of the nursing process to individuals across the life span in acute care and community settings. Utilizes the nursing process in determining the care of clients having cancer and the care of clients with respiratory, cardiovascular, sensory, and urinary and renal dysfunctions. Four class hours weekly. Co-requisite: NURS 211. Prerequisites: PSY 260, minimum grade of C in BIOL 259 and NURS 102 and 132, and "Pass" in NURS 112. Fall, annually.
- NURS 202:** *NURSING PROCESS IV* **4 s.h.**
 Focuses on the application of the nursing process in a variety of settings to individuals across the life span. Explores the nursing process as it relates to the care of clients having immune, neurologic, endocrine, and psychiatric-mental health dysfunction. Emphasizes the nursing management of selected clients requiring critical care. Co-requisite: NURS 212. Prerequisites: Minimum grade of C in NURS 201 and "Pass" in NURS 211. Spring, annually.
- NURS 203:** *TRENDS AND ISSUES IN NURSING* **2 s.h.**
 Introduces students to relevant aspects of change in the nursing profession, ranging from historical development to current issues and trends. Provides opportunities for students to participate in in-depth studies of selected topics of interest. Emphasizes role transition from student to graduate nurse. Prerequisites: Minimum grade of C in NURS 101, 102, and 201. Spring, annually.
- NURS 211:** *NURSING PROCESS III: CLINICAL PRACTICE* **4 s.h.**
 Clinical practice experience provides opportunities for students to implement objectives identified in NURS 201. Students care for clients across the life span having cancer and clients having respiratory, cardiovascular, sensory, urinary, and renal dysfunctions. Provides opportunities for administration of intravenous medications and development of skills in comprehensive client assessment. Twelve clinical hours weekly. Co-requisite: NURS 201. Prerequisites: Minimum grade of C in BIOL 259 and NURS 102 and 132 and "Pass" in NURS 112. Fall, annually.
- NURS 212:** *NURSING PROCESS IV: CLINICAL PRACTICE* **4 s.h.**
 Clinical practice experience provides opportunities for students to implement objectives identified in NURS 202 and 203. Students care for acutely ill clients across the life span having immune, neurologic, endocrine, and psychiatric-mental health dysfunctions. Provides opportunities for delivery of care to increasing numbers of clients, and guided practice in refining interpersonal and decision-making skills required of the graduate nurse. Twelve clinical hours weekly. Co-requisites: NURS 202 and 203. Prerequisites: Minimum grade of C in NURS 201, and "Pass" in NURS 211. Spring, annually.

NURS 299: SPECIAL TOPICS IN NURSING 1-3 s.h.

This course deals with topics of special interest for all nursing students. It will focus on identified nursing subjects needed to keep students abreast of the changing trends in the profession and provide them with a mechanism for updating their nursing knowledge and clinical competencies. This course may be offered summers and weekends during the academic year, according to demand, and will be open to all students.

Nursing Bachelor's Degree Courses**NURS 320: DEATH AND GRIEF 3 s.h.**

Explores the dying process from various conceptual and theoretical frameworks. Focuses on historical, ethical, socio-cultural and interpersonal perspectives on death. Students address their own mortality and develop a personal philosophy of death and grief. Opportunities are provided for students to interact with professional experts as well as individuals experiencing grief/death issues. Spring, annually, and as needed. Open to all students.

NURS 335: ALTERNATIVE THERAPIES 3 s.h.

Explores various approaches to health and healing that lie outside the realm of conventional Western medicine. Focuses on how these therapies are presented on the World Wide Web and how the registered nurse can evaluate their effectiveness. Students will research selected topics and critically appraise the quality of information found on the Internet. Open to all students. Fall, annually.

NURS 340: NURSING IN TRANSITION 3 s.h.

Provides a theoretical foundation for the transition from technical to professional nursing practice. Addresses the concepts of nursing, health, individual, and environment. Explores nursing as an evolving profession with emphasis on the historical perspectives, environmental context, and future trends that could impact health care. Views individuals from a holistic perspective, and explores the spectrum of health. Introduces nursing theory and nursing inquiry as the basis for the practice of professional nursing. Open to students who are **licensed RNs** and others with permission of instructor. Fall, annually, and as needed.

NURS 342: THINKING IN CONTEMPORARY NURSING 3 s.h.

Focuses on thinking as a skill and its practical application in the health care arena. Emphasizes critical thinking, creative thinking, reasoning, decision making, problem solving, and metacognition as they relate to the many facets of professional nursing practice. Provides students opportunities to transfer skills to problems of a professional and personal nature. Open to students who are **licensed RNs** and others with permission of instructor. Spring, annually, and as needed

NURS 346: HEALTH ASSESSMENT 2 s.h.

Enables the registered nurse to enhance skills in assessing the health status of individuals. Provides an opportunity to obtain a comprehensive health history and perform a screening physical assessment. Emphasizes recognizing deviations from normal and integrating physiological, psychosocial, developmental, spiritual, and transcultural dimensions in order to formulate diagnostic hypotheses. Open to students who are **licensed RNs**. Spring, annually, and as needed.

NURS 347: CREATING A WELLNESS LIFESTYLE 2-3 s.h.

Introduces the student to the concepts of wellness and health promotion from a holistic perspective. Within this framework, students explore how to gain more control over their lives through effective stress management, management of time and change, and adequate self and social support. Assists students in increasing self-responsibility and negotiating the health care delivery system. Discusses health measures such as diet, exercise, and sleep as they relate to a wellness lifestyle. Explores the balance of caring for others and caring for self. Each student is guided in formulating an individualized wellness plan. Open to all students. Fall, annually, and as needed.

NURS 351: PUBLIC SCHOOL NURSING 3 s.h.

Emphasizes the new dimensions of school health and public school nursing. Defines and explores personal qualifications, professional preparation, and the expanded role of the school nurse in the classroom and clinical practicum. Concentrates on health education and health promotion of school age children and adolescents. Each student has a clinical practicum with a certified school nurse in the public school setting. One and one-half lecture and 4-plus clinical hours weekly. Prerequisites: NURS 340, 361, and 346 or a B.S. in nursing. NURS 342 is a pre- or co-requisite for undergraduate students. Open to RN students and students holding a B.S. in Nursing. Offered Fall, 'odd' years.

NURS 357: LEADERSHIP NURSING 3 s.h.

Provides a theoretical foundation for the practice of independent and interdependent nursing. Introduces the principles of leadership and management, and emphasizes their application to professional nursing. Focus includes concepts of motivation, change, group process, empowerment, and nursing care delivery systems. Open to **licensed RNs** and others with permission of instructor. Spring, annually, and as needed.

NURS 361: NURSE AS EDUCATOR 3 s.h.

Requires students to develop and provide health education to individuals, families, and communities. Focuses on the nursing process, the teaching/learning process, and health care informatics. Provides opportunities for the student to implement the teaching/learning process in the delivery of health education programs. Open to students who are **licensed RNs**. Fall, annually, and as needed.

NURS 365: HEALTH PROMOTION FOR THE ELDERLY 3 s.h.

Provides students with information and strategies related to the promotion and maintenance of health in a holistic manner for the elderly population. Promotes inquiry and stimulates the critical-thinking processes of the student by emphasizing health and wellness concepts. Open to all students. Offered Fall 'even' years.

NURS 368: HUMAN CARING 3 s.h.

Provides an opportunity for in-depth exploration of the concept caring. Appropriate to students entering any human service major. Derives content primarily from scholarly works in the discipline of nursing. Supplements Jean Watson's theory of human caring with guided experiences designed to facilitate personal discovery of one's caring capacities and opportunities to more fully integrate them into the work of one's discipline. Open to all students. Spring, annually, as needed.

Associate of Science in Allied Health

The Associate of Science in Allied Health has an academic preparation of two years (60 semester hours including general education) with 30 residential credits at Clarion University and is designed for those students who want an associate degree in allied health. The degree is for individuals who have extensive personal life experiences in an allied health field or have a number of academic credits and want an associate degree in allied health. The program may apply to students who have accumulated at least 30 credits through health and/or allied health courses while meeting the general education requirements for an associate degree from Clarion University. An example of an audience for the program would be diploma nursing school students who have accumulated many nursing and general education credits, and completed their program with a hospital-issued diploma. (An Associate of Science in Nursing cannot be earned unless the courses in the major are taught by the university issuing the degree.)

Sample Curriculum

- I. Liberal Education Skills 6-9 Credits**
 - A. English Composition 3-6 Credits
 - B. Quantitative Reasoning
or Mathematics Competency 3 Credits
 - C. Liberal Education Skills 3 Credits
- II. Liberal Knowledge 15 Credits**
 - A. Physical and Biological Sciences 3-9 Credits
 - B. Social and Behavioral Sciences 3-9 Credits
 - C. Arts and Humanities 3-9 Credits
- III. Health and Personal Performance 3 Credits**
 - A. Health and Wellness/Personal
Performance 3 Credits
- IV. General Education Electives 3-9 Credits**
(Sufficient to Total 30 Credits)
- V. Allied Health 30 Credits**

Bachelor of Science in Radiologic Sciences Program

The Bachelor of Science in Radiologic Sciences has an academic preparation of two years (60 semester hours including general education) at Clarion University and continues with a 24-month, 60-semester hours course of clinical study in an affiliated hospital-based school of radiologic technology. All affiliated hospital-based schools of radiologic technology are accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Entry into the general education portion of the program is available to individuals meeting university admission criteria. Upon successful completion of three semesters at Clarion University, the student is eligible to apply for admission to an affiliated hospital program. Hospital-based clinical education has limited space and competitive admission standards. Admission to the Bachelor of Science in Radiologic Science program at Clarion University does not guarantee admission to an affiliated hospital-based program, although we commit to prudent enrollment management to maximize the success of the students we accept. At the completion of the second year

of study at Clarion University, students enter the radiologic technology program at the affiliated hospital to which they have been accepted. Upon successful completion of this course of study, the student is awarded a Bachelor of Science in Radiologic Sciences Degree and is eligible to sit for the national certification examination in radiography sponsored by the American Registry of Radiologic Technologists. Successful completion of this examination entitles the graduate technologist to use the credentials R.T. (R), Registered Technologist (Radiography) and practice as an entry-level R.T. in most states in the United States.

Admission Policy

Students interested in the Bachelor of Science in Radiologic Sciences Degree will be accepted into the university using the standard criteria for admission. Retention in the program requires the student to maintain a cumulative 2.0 QPA and attain a grade of C or higher in all required professional courses and all required major courses. Students who apply for admission to an affiliated hospital's two-year radiologic technology program must do so in the second semester of their sophomore year. Application is made to a hospital's radiologic technology program and acceptance is at the discretion of the admission committee of the hospital program. Students will be accepted by a hospital on the basis of their university records, application materials, and interviews with hospital program officials and admissions committee.

B.S. in Radiological Sciences Curriculum

Although the Bachelor of Science in Radiologic Sciences is designed to be completed in two academic years at Clarion University and two years at an affiliated hospital, part-time study is available during the first two years. The curriculum outline for the freshman and sophomore years of the program is as follows:

Curriculum Plan

		Credits
FIRST SEMESTER		
CHEM	153	Chemistry I .....3
CHEM	163	Chemistry I Lab .....1
ENG	111	English Composition .....3
		Arts and humanities elective .....3
		¹ Social and behavioral sciences elective .....3
HPE		Activity course .....1
		TOTAL.....14
SECOND SEMESTER		
CHEM	154	Chemistry II .....3
CHEM	164	Chemistry II Lab .....1
		² Liberal education elective .....3
		³ Social and behavioral sciences elective .....3
		Free elective .....3
HPE	111	Health Education.....2
		TOTAL.....15
THIRD SEMESTER		
BIOL	258	Anatomy and Physiology .....3
PHSC	112	Basic Phy. Sci.: Physics and Astronomy.....3
		Arts and humanities elective .....3
MATH	221	Mathematics competency.....3
		General education elective .....3
		TOTAL.....15

FOURTH SEMESTER		Credits
BIOL	259	Anatomy and Physiology II .....3
	⁴	Liberal education elective 3
		Social and behavioral sciences elective .....3
		General education elective .....3
		Arts and humanities elective .....3
		Free elective .....1
		TOTAL .....16
Total Credits		.....60

Note recommended courses:

- ¹ PSY 211 General Psychology
- ² CMST 113 Public Speaking
- ³ SOC 211 Principles of Sociology
- ⁴ CIS Application of Microcomputers

Associate of Science in Respiratory Care for Advanced Level Practitioners

Clarion University's Associate of Science in Respiratory Care degree program for advanced level practitioners is offered at the Venango Campus in Oil City and is sponsored through a partnership between Clarion University, UPMC Horizon, and UPMC Northwest.

The 24-month respiratory care program has an academic preparation of one academic year (two semesters) at Clarion University and continues with a 14-month program of clinical study at accredited affiliated clinical sites.

Following completion of 79 credits of course work at Clarion University, UPMC Northwest, and affiliated clinical practicum sites, the student is awarded the Associate of Science in Respiratory Care degree from Clarion University. Program graduates are eligible to sit for the credentialing examinations administered by the National Board for Respiratory Care (NBRC). Graduates who successfully pass the NBRC Written Registry Examination for Advanced Level Respiratory Therapists and the Clinical Simulation Examination will earn the credentials Registered Respiratory Therapist (RRT) and may work in a variety of health care settings as advanced-level respiratory therapists after obtaining state licensure.

The Clarion University/UPMC Horizon/UPMC Northwest Respiratory Care Program is a new program that is in the accreditation process with the Committee on Accreditation for Respiratory Care (CoARC) and the Commission on Accreditation of Allied Health Educational Programs (CAAHEP).

Clinical Education

During the 14-month clinical phase of the respiratory care program, students will attend classes and clinical practicum five full days per week with some days spent in formal respiratory care classes taught at UPMC Northwest and other days spent at assigned clinical sites. Students will also be required to periodically attend specialty respiratory care rotations at local and regional health care organizations.

Significant travel is required of respiratory care students. Reliable transportation is therefore essential and is at the expense of the student. Additionally, some weekend and evening rotations may be required.

Several local and regional health care organizations will serve as clinical sites for the respiratory care program. Although student preference for a particular clinical site will be considered, students are not guaranteed the clinical site(s) of their choice.

Admission Policy

Admission to the Associate of Science in Respiratory Care–Advanced Level Practitioner Degree Program is a two-step process that begins with acceptance to Clarion University. Applicants are required to meet the standard admission criteria for Clarion University. After acceptance to Clarion University, students must then be accepted to the respiratory care program and must also meet additional admission criteria required by UPMC Northwest. Admission to the respiratory care program is competitive and is not guaranteed.

Possible prerequisites:

- Students who do not place into the appropriate math level (MATH 112 or higher) must take MATH 050 or MATH 110 before acceptance to the program.
- One year of high school or college biology with a minimum grade of C or better.

Note: Biology must have been taken within five years of entry to Clarion University. If biology has not been taken within the time frame, Basic Biology (BIOL 111) will be required before acceptance to the program.

Additional admission criteria required by UPMC Northwest:

- Successful hospital interview (will include a writing sample),
- Satisfactory score on PSB Health Occupations Aptitude Examination (fee applies),
- Four documented hours of respiratory care career shadowing with a respiratory therapist in a hospital setting,
- Two letters of recommendation from current employers or teachers,
- Satisfactory physical examination,
- Child abuse history clearance (fee applies),
- Satisfactory results of a screening for illegal drug use,
- Criminal background clearance,
- Documentation of individual malpractice insurance as required,* and
- \$200 non-refundable deposit to UPMC Northwest by end of first Fall Semester

*Students will purchase their own individual malpractice insurance policies in the amount of one million dollars (\$1,000,000) for each claim and three million dollars (\$3,000,000) in the aggregate. Cost of the two-year policy is currently less than \$100 (2007).

Only students who have met the above criteria and who have completed all science and general education requirements will be permitted to start clinical education. Clinical education begins each May.

Curriculum Plan Full-Time Study

Although the Associate of Science in Respiratory Care degree program is designed to be completed in 24 consecutive months (two semesters at Clarion University followed by 14 months of clinical education that includes two summer sessions), the first two semesters at Clarion University may be completed on a part-time basis. Clinical education must be completed on a full-time basis.

Curriculum Plan

<i>FIRST SEMESTER (FALL I)</i>		Credits
BIOL	258 Human Anatomy and Physiology I	3
ENG	111 Writing II	3
PHSC	111 Physical Science Chemistry	3
MATH	112 Excursions in Math.....	3
PSY	211 General Psychology.....	3
SEMSTER TOTAL.....		15
<i>SECOND SEMESTER (SPRING I)</i>		Credits
BIOL	259 Human Anatomy and Physiology II	3
RESP	101 Introduction to Respiratory Care	3
RESP	120 Introduction to Lab/Clinics in RC.....	1
BIOL	260 Microbiology.....	3
CIS	217 Application of Microcomputers	3
	Free elective.....	3
SEMESTER TOTAL.....		16
<i>THIRD SEMESTER (SUMMER I)</i>		Credits
RESP	102 Intermediate Respiratory Care	3
RESP	121 Clinical Application of Respiratory Care I.....	2
RESP	201 Cardiopulmonary A&P.....	3
RESP	202 Cardiopulmonary Pathophysiology.....	2
RESP	203 Cardiopulmonary Pharmacology.....	2



SEMESTER TOTAL.....		12
<i>FOURTH SEMESTER (FALL II)</i>		Credits
RESP	204 Advanced Respiratory Care	4
RESP	205 Mechanical Ventilation and Critical Care I....	4
RESP	206 Long Term Care, Rehabilitation, and Sleep Disorders.....	3
RESP	220 Clinical Application of Respiratory Care II.....	3
SEMESTER TOTAL.....		14
<i>FIFTH SEMESTER (SPRING II)</i>		Credits
RESP	207 Mechanical Ventilation and Critical Care II ...	4
RESP	208 Neonatal and Pediatric Respiratory Care	3
RESP	121 Clinical Application of Respiratory Care III ...	5
SEMESTER TOTAL.....		12
<i>SIXTH SEMESTER (SUMMER II)</i>		Credits
RESP	209 Advanced Life Support and Case Studies	2
RESP	210 Advanced Clinical Concepts	3
RESP	211 Case Studies—Clinical Simulations.....	2
RESP	222 Clinical Application of Respiratory Care IV ...	3
SEMESTER TOTAL.....		10
Total Credits		79

A minimum grade of C must be earned in MATH 112, BIOL 258, BIOL 259, BIOL 260, PHSC 111, and all respiratory care (RESP) courses.

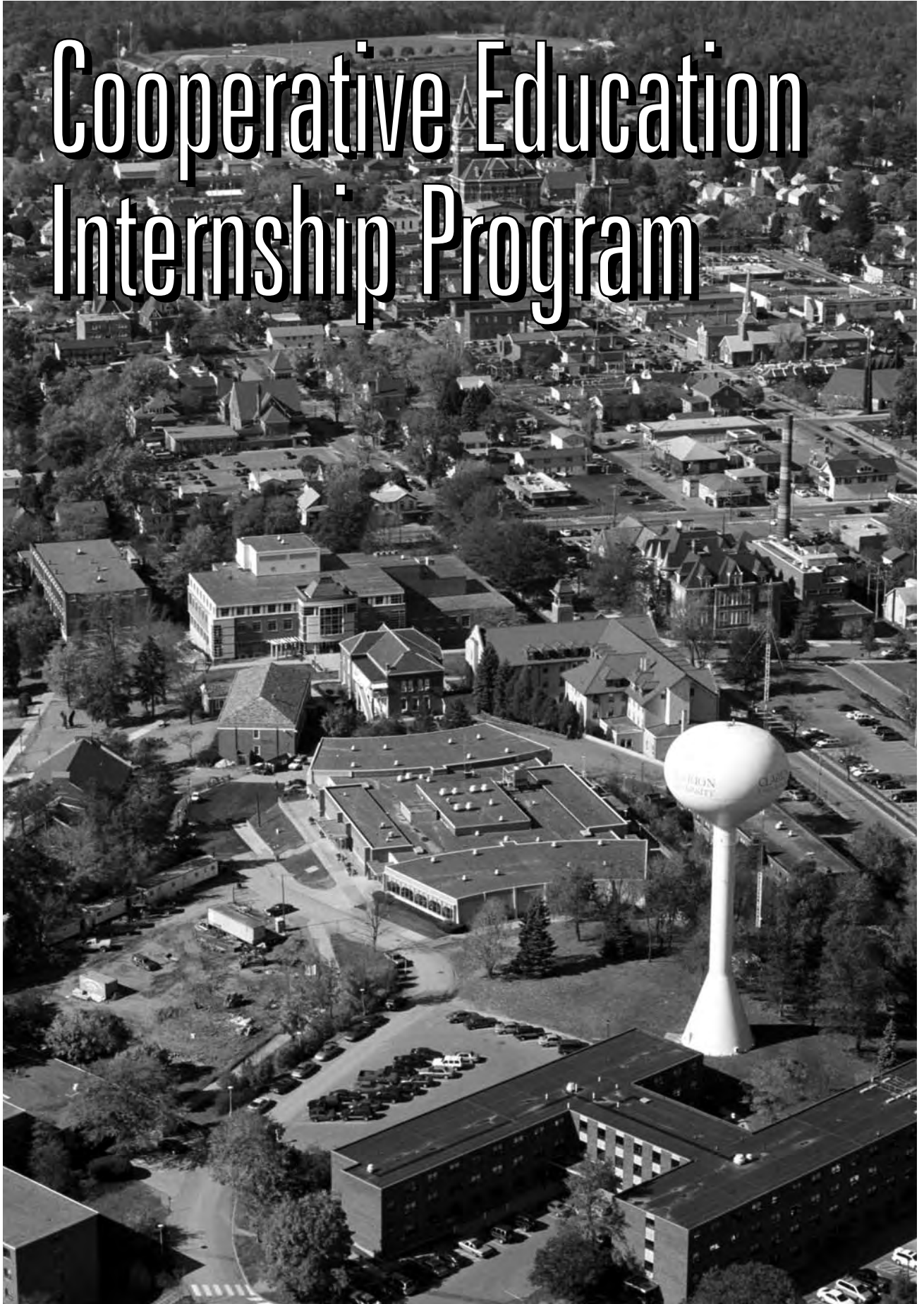
Respiratory Care Courses

- RESP 101: INTRODUCTION TO RESPIRATORY CARE** **3 s.h.**
 Students learn applicable medical terminology and the principles of infection control. The course introduces respiratory care modalities such as medical gas therapy, humidity therapy, aerosol therapy, and aerosolized bronchodilator therapy. Basic care is related to patients with chronic obstructive pulmonary disease (COPD) and asthma. Co-requisite: RESP 120.
- RESP 102: INTERMEDIATE RESPIRATORY CARE** **3 s.h.**
 Introduces basic principles of bronchial hygiene therapy and lung hyper-expansion therapy such as incentive spirometry, IPPB, and PEP therapy. Additionally, the course introduces other techniques in patient assessment, including assessing breath sounds, ECG, and chest radiography. Management of the airway is presented, including coughing techniques, suctioning of the upper airway, and use of artificial airways. Arterial blood gas interpretation is included. Prerequisites: RESP 101 and 120.
- RESP 120: INTRODUCTION TO LAB/CLINICS IN RESPIRATORY CARE** **1 s.h.**
 Supervised clinical practice takes place in a controlled lab/clinic environment. Students participate in learning and practicing the general respiratory care activities typically performed in the non-critical care/general floor areas of the hospital. Co-requisite: RESP 101.
- RESP 121: CLINICAL APPLICATION OF RESPIRATORY CARE I** **2 s.h.**
 Students learn to perform chart reviews, patient interviews, basic patient assessment, and patient treatment with modes of care including oxygen therapy, humidity, and aerosol therapies with bronchodilators, bronchial hygiene, and hyperinflation therapy. An introduction to arterial blood gas sampling and analysis is provided. Prerequisites: RESP 101 and 120; Co-requisite: RESP 102.
- RESP 201: CARDIOPULMONARY ANATOMY AND PHYSIOLOGY** **3 s.h.**
 Students learn applied anatomy, physiology, and mechanics of the cardiopulmonary system. The course demonstrates the application of physiological principles in the practice of respiratory care and includes such concepts as acid-base balance, oxygen transport and utilization, electrolyte interpretation, and an introduction to techniques in measuring basic hemodynamic and pulmonary function. Prerequisite: BIOL 259.

- RESP 202:** *CARDIOPULMONARY PATHOPHYSIOLOGY* **2 s.h.**
 Students learn to examine pulmonary pathologic disorders for each age group (neonate, child, adult, elderly adult). Each disorder reviewed includes a discussion of related medical history, pathophysiology of the disorder, physical findings, lab data, arterial blood gases, pulmonary function studies, chest radiography results, and cardiovascular findings. Recommended therapies and prognosis are included. Prerequisites: RESP 101 and 120; Co-requisite: RESP 201.
- RESP 203:** *CARDIOPULMONARY PHARMACOLOGY* **2 s.h.**
 Students learn to examine common pharmacologic agents used in treatment of the cardiopulmonary system. The course includes respiratory drugs, such as mucolytics, bronchodilators, anti-inflammatory agents, inhaled anti-microbials, and surfactant acting agents. It also provides an introduction to general antibiotic therapy and basic cardiovascular medications. Prerequisites: RESP 101, 102, and 120; Co-requisite: RESP 201.
- RESP 204:** *ADVANCED RESPIRATORY CARE* **4 s.h.**
 Includes ethical and legal implications of practice, appropriate communication and record keeping, and computer application in respiratory care, including a study of pulmonary function testing techniques and an introduction to exercise testing. Advanced airway management techniques and the use of artificial airways are discussed. Prerequisites: RESP 101, 201, and 202.
- RESP 205:** *MECHANICAL VENTILATION AND CRITICAL CARE I* **4 s.h.**
 Students learn to initiate mechanical ventilation of the critically ill patient, including indications for noninvasive mechanical ventilation and invasive mechanical ventilation. Initial ventilator settings based on patient size (neonatal, pediatric, and adult) and diagnosis are reviewed. The course provides an introduction to mechanical ventilators and their function. Prerequisites: RESP 102, 201, 202, and 203; Co-requisites: RESP 204 and 206.
- RESP 206:** *LONG-TERM CARE, REHABILITATION, AND SLEEP DISORDERS* **3 s.h.**
 Introduces students to the care of patients in all age groups with chronic pulmonary disorders such as oxygen-dependent and ventilator-dependent individuals. The delivery of respiratory care in long-term acute care and non-acute care facilities is included. Students examine programs of cardiopulmonary rehabilitation. Sleep study facilities, sleep apnea testing, and care of the patient with a sleep disorder are reviewed. Prerequisites: RESP 102, 202, and 203; Co-requisites: RESP 204 and 205.
- RESP 207:** *MECHANICAL VENTILATION AND CRITICAL CARE II* **4 s.h.**
 Students continue to learn management of critically ill patients who require ventilation support, including how to make appropriate ventilation adjustments based on assessment of patient-ventilator interaction and pathophysiology. Students learn how to recognize complications of mechanical ventilation through ventilator waveform analysis and patient assessment. Students learn to identify patient readiness for ventilator discontinuation. Alternative techniques such as high frequency ventilation, nitric oxide therapy, and unilateral lung ventilation are presented. Prerequisite: RESP 205.
- RESP 208:** *NEONATAL AND PEDIATRIC RESPIRATORY CARE* **3 s.h.**
 Emphasizes care of the premature infant, newborn, and child. Basic forms of therapy for these age groups are reviewed. Includes both noninvasive and invasive forms of support and ventilator management for neonatal and pediatric patients. Students learn advanced cardiac life support techniques for neonatal and pediatric patients and examine appropriate responses to emergency situations of cardiopulmonary collapse for newborns and pediatric groups. Additional therapeutic techniques such as nitric oxide, extracorporeal membrane oxygenation, and high frequency oscillation of the infant are presented. Prerequisites: RESP 204 and 205.
- RESP 209:** *ADVANCED LIFE SUPPORT AND CASE STUDIES* **2 s.h.**
 Students learn advanced cardiac life support (ACLS) techniques for adult patients and examine appropriate responses to emergency situations of cardiopulmonary collapse. Students also examine various patient cases related to emergency life support. Prerequisites: RESP 204, 205, 207, and 208.
- RESP 210:** *ADVANCED CLINICAL CONCEPTS* **3 s.h.**
 Summative course provides an overview of all respiratory care procedures presented in the program. Students are given the opportunity to evaluate their understanding of key concepts and review areas needing additional study. The course provides an opportunity to focus on a particular area of interest and includes a review for the NBRC entry level examination. Prerequisites: RESP 204, 205, 206, and 207; Co-requisites: RESP 209 and 211.
- RESP 211:** *CASE STUDIES—CLINICAL SIMULATIONS* **2 s.h.**
 The course reviews patient cases using a case study or clinical simulation approach. Students review how to gather appropriate data, critically analyze data and recommend patient treatment modalities, and evaluate patient response to treatment and make appropriate adjustments. Students participate in an advanced-level written registry examination for self-assessment and an advanced level clinical simulation examination for self assessment. Prerequisites: RESP 204, 205, 206, and 207; Co-requisites: RESP 209 and 210.
- RESP 220:** *CLINICAL APPLICATION OF RESPIRATORY CARE II* **3 s.h.**
 During the clinical course, students practice respiratory care techniques in the critical care environment, including techniques previously demonstrated and new techniques in ventilator management. Time management skills are introduced. Prerequisites: RESP 102, 121, 202, and 203; Co-requisites: RESP 204 and 205.
- RESP 221:** *CLINICAL APPLICATION OF RESPIRATORY CARE III* **5 s.h.**
 Students gain additional practice in the critical care unit. Clinical rotations are provided to pulmonary function laboratories, bronchoscopy suites, and additional facilities of the hospital in which respiratory therapists are active. Prerequisite: RESP 220; Co-requisite: RESP 207.
- RESP 222:** *CLINICAL APPLICATION OF RESPIRATORY CARE IV* **3 s.h.**
 The clinical rotation provides students with experience in neonatal, pediatric, and adult care units. Additional rotations to home care agencies, sleep study centers, cardiac/pulmonary rehabilitation programs, and extended care facilities. Emphasis is placed on students gaining better patient- and time-management skills. Prerequisites: RESP 206, 207, 208, 221; Co-requisites: RESP 209 and 211.

Cooperative Education Internship Program

Cooperative Education
Internship Program



Cooperative Education Internship Program

College Deans

Co-op study is a general term applied to voluntary service, part-time and full-time employment, and internship experiences.

Co-op courses (300-level) are based upon job assignments that are related to the student's university major or career objectives and provide learning experiences as stated in their respective learning objectives. Faculty coordinators from academic departments advise students, review learning objectives, and evaluate term reports.

Cooperative education procedures are sufficiently flexible to provide for student and employer needs. The program is designed to enhance self-realization and direction by integrating classroom study with planned and supervised experiences in educational, professional, business, and cultural learning situations outside the formal classroom environment. The joint efforts of faculty, participating employers, and students are directed toward the achievement of an educational experience where classroom studies and appropriate work experience combine to reinforce each other. Prerequisite: junior standing, minimum 2.5 QPA, or approval of the appropriate college dean. Offered each semester and on demand.

An internship (400-level) is usually a culminating experience for seniors. Interns should have completed most of the required courses in their major area of study. Internships operate somewhat like student teaching, with the emphasis upon application of knowledge in a realistic setting rather than acquisition of new material. In other words, internships are begun with most entry-level skills at least partially developed, and the intern is expected to render supervised professional services. The length of an internship may be less than a semester or as long as a year. Many internships carry no salary or stipend.

Because internships are tailored to fit the demands of the respective professions as well as the needs of individual students, each college and department is encouraged to establish requirements and criteria for acceptance in the

program and for successful completion which go beyond the minimal requirements established by the cooperative education/internship program. Each college is expected to enforce its own requirements through its departments.

Minimally, students must have senior standing and a minimum 2.50 QPA or approval of the department.

CREDIT HOURS for co-op/internship registration carry from one to 12 credits as arranged. Any combination of co-op/internship credits earned in excess of 12 semester hours cumulative total will be entered on student records but will not be counted as credits required for graduation.

GRADING of co-op/internship experiences normally carries "credit-no record" evaluation of work performance. Individual students may petition to receive a letter grade at the time of registration. This policy does not apply to the credit-no record regulation promulgated as part of the university grading system.

The Harrisburg Internship Semester (THIS)

The Harrisburg Internship Semester (THIS) is a prestigious and paid internship in which the student gains an applied understanding of how Pennsylvania state government operates by interning with a branch of government related to his or her major. Each semester, students from schools in the Pennsylvania State System of Higher Education are selected to take part in this valuable program. The student selected from Clarion University each semester receives a stipend that covers room and board, tuition, and most travel expenses while completing 15 credits in independent study and cooperative education. Sophomore or junior students from any major will be considered as long as their overall QPA is 3.00 or above. This internship is particularly valuable for individuals interested in government work, graduate school, or a legal career. Applications for each academic year are solicited during the previous Spring Semester. Further information is available through the Office of the University Provost, 115 Carrier Hall or the THIS faculty coordinator, Dr. Robert S. Balough, 310 Still Hall.

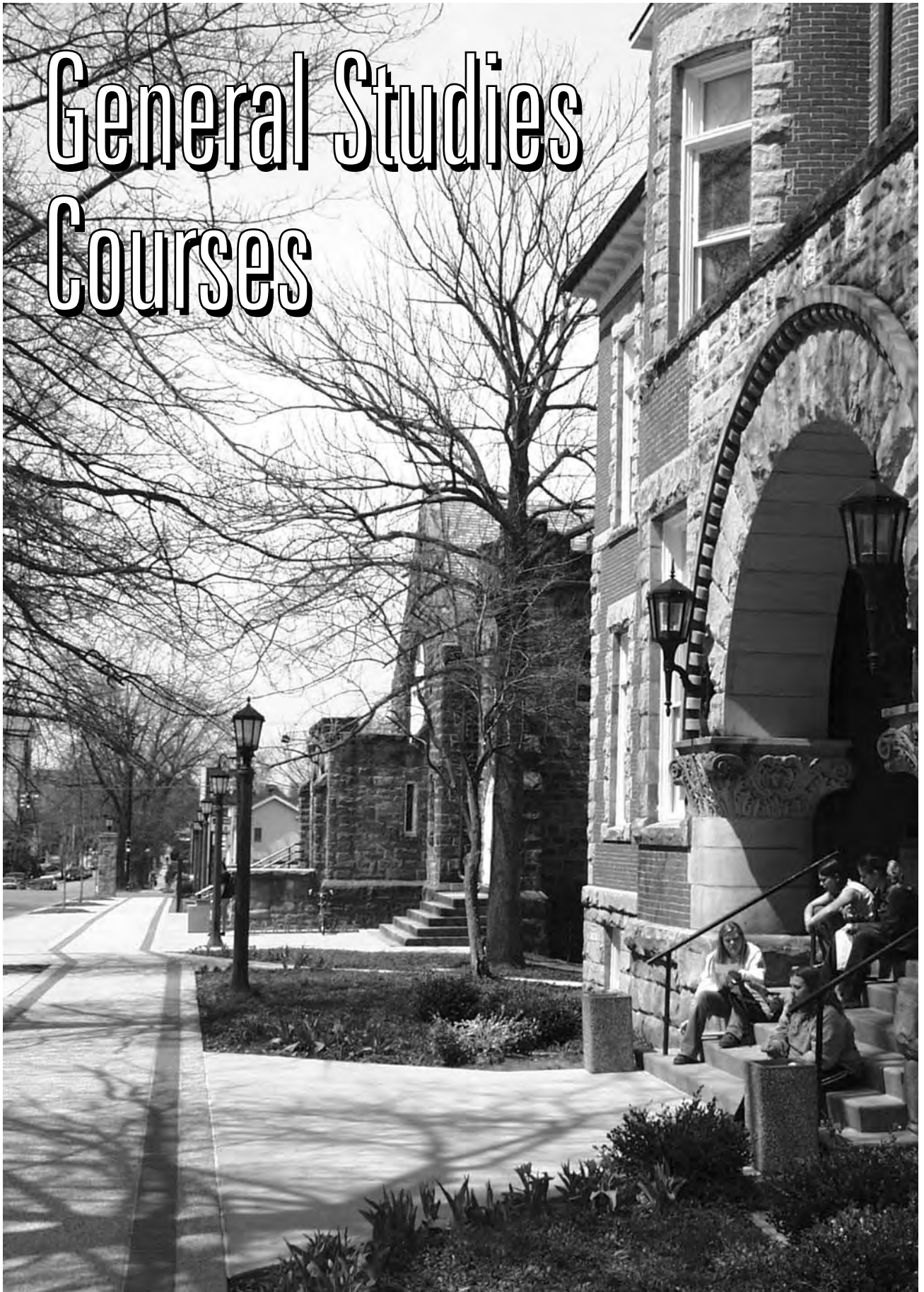
Co-op Course Numbers

COOP 301: Co-op/Anthropology
 COOP 401: Intern/Anthropology
 COOP 302: Co-op/Philosophy
 COOP 402: Intern/Philosophy
 COOP 303: Co-op/Political Science
 COOP 403: Intern/Political Science
 COOP 404: Co-op/Sociology
 COOP 404: Intern/Sociology
 COOP 305: Co-op/Social Work
 COOP 405: Intern/Social Work
 COOP 306: Co-op/Art
 COOP 406: Intern/Art
 COOP 308: Co-op/Biology
 COOP 408: Intern/Biology
 COOP 309: Co-op/Environmental Science
 COOP 409: Intern/Environmental Education
 COOP 310: Co-op/Outdoor Education
 COOP 410: Intern/Outdoor Education
 COOP 311: Co-op/Science Education
 COOP 411: Intern/Science Education
 COOP 312: Co-op/Chemistry
 COOP 412: Intern/Chemistry
 COOP 313: Co-op/Communication
 COOP 413: Intern/Communication
 COOP 314: Co-op/Advertising
 COOP 414: Intern/Advertising
 COOP 315: Co-op/Journalism
 COOP 415: Intern/Journalism
 COOP 316: Co-op/Public Relations
 COOP 416: Intern/Public Relations
 COOP 317: Co-op/Radio
 COOP 417: Intern/Radio
 COOP 318: Co-op/Television
 COOP 418: Intern/Television
 COOP 319: Co-op/Computer Science
 COOP 419: Co-op/Inter-Computer Science
 COOP 320: Co-op/Accounting
 COOP 420: Intern/Accounting
 COOP 321: Co-op/International Business
 COOP 421: Intern/International Business
 COOP 322: Co-op/Banking

COOP 422: Intern/Banking
 COOP 323: Co-op/Finance
 COOP 423: Intern/Finance
 COOP 324: Co-op/Management
 COOP 424: Intern/Management
 COOP 325: Co-op/Marketing
 COOP 425: Intern/Marketing
 COOP 326: Co-op/Real Estate
 COOP 426: Intern/Real Estate
 COOP 327: Co-op/Economics
 COOP 427: Intern/Economics
 COOP 328: Co-op/Administration
 COOP 428: Intern/Administration
 COOP 329: Co-op/Office Management
 COOP 429: Intern/Office Management
 COOP 330: Co-op/Management in Library Science
 COOP 430: Intern/Management in Library Science
 COOP 332: Co-op/Early Childhood
 COOP 432: Intern/Early Childhood
 COOP 333: Co-op/Elementary Education
 COOP 433: Intern/Elementary Education
 COOP 334: Co-op/Secondary Education
 COOP 434: Intern/Secondary Education
 COOP 335: Co-op/Education
 COOP 435: Intern/Education
 COOP 336: Co-op/English
 COOP 436: Intern/English
 COOP 337: Co-op/Writing Center
 COOP 437: Intern/Writing Center
 COOP 338: Co-op/Geography
 COOP 438: Intern/Geography
 COOP 339: Co-op/Earth Science
 COOP 439: Intern/Earth Science
 COOP 340: Co-op/Urban Planning
 COOP 440: Intern/Urban Planning
 COOP 341: Co-op/Health and Safety
 COOP 441: Intern/Health and Safety
 COOP 342: Co-op/Physical Education
 COOP 442: Intern/Physical Education
 COOP 343: Co-op/Recreation
 COOP 443: Intern/Recreation
 COOP 344: Co-op/Coaching
 COOP 444: Intern/Coaching

- COOP 345: Co-op/Athletic Training
COOP 445: Intern/Athletic Training
COOP 346: Co-op/Water Safety
COOP 446: Intern/Water Safety
COOP 347: Co-op/Sport Management
COOP 447: Intern/Sport Management
COOP 348: Co-op/History
COOP 448: Intern/History
COOP 349: Co-op/Humanities
COOP 449: Intern/Humanities
COOP 350: Co-op/Library Science
COOP 450: Intern/Library Science
COOP 351: Co-op/Media
COOP 451: Intern/Media
COOP 352: Co-op/Mathematics
COOP 452: Intern/Mathematics
COOP 355: Co-op/French
COOP 455: Intern/French
COOP 356: Co-op/German
COOP 456: Intern/German
COOP 358: Co-op/Spanish
COOP 458: Intern/Spanish
COOP 360: Co-op/Music
COOP 460: Intern/Music
COOP 361: Co-op/Piano
COOP 461: Intern/Piano
COOP 362: Co-op/Instrumental
COOP 462: Intern/Instrumental
COOP 363: Co-op/Vocal
COOP 463: Intern/Vocal
COOP 364: Co-op/Music Marketing
COOP 464: Intern/Music Marketing
COOP 366: Co-op/Physics
COOP 466: Intern/Physics
COOP 368: Co-op/Psychology
COOP 468: Intern/Psychology
COOP 369: Co-op/Counseling
COOP 469: Intern/Counseling
COOP 370: Co-op/Student Life Services
COOP 470: Intern/Student Life Services
COOP 371: Co-op/Student Affairs
COOP 471: Intern/Student Affairs
COOP 372: Co-op/Academic Support Services
COOP 472: Intern/Academic Support Services
COOP 374: Co-op/Human Relations
COOP 474: Intern/Human Relations
COOP 376: Co-op/Special Education
COOP 476: Intern/Special Education
COOP 377: Co-op/Rehabilitative Sciences
COOP 477: Intern/Rehabilitative Sciences
COOP 378: Co-op/Learning Disabilities
COOP 478: Intern/Learning Disabilities
COOP 379: Co-op/Mental Retardation
COOP 479: Intern/Mental Retardation
COOP 381: Co-op/Speech Pathology
COOP 481: Intern/Speech Pathology
COOP 382: Co-op/Audiology
COOP 482: Intern/Audiology
COOP 383: Co-op/Speech
COOP 483: Intern/Speech
COOP 384: Co-op/Theatre
COOP 484: Intern/Theatre
COOP 386: Co-op/Nursing
COOP 486: Intern/Nursing
COOP 387: Co-op/Medical Technology
COOP 487: Intern/Medical Technology
COOP 389: Co-op/Continuing Education
COOP 489: Intern/Continuing Education
COOP 390: Co-op/Academic Services
COOP 490: Intern/Academic Services
COOP 391: Co-op/Financial Aid
COOP 491: Intern/Financial Aid
COOP 392: Co-op/Research
COOP 492: Intern/Research
COOP 393: Co-op/Admissions
COOP 493: Intern/Admissions
COOP 395: Co-op/Life Experience
COOP 495: Intern/Life Experience
COOP 396: Co-op/Paralegal
COOP 496: Intern/Paralegal
COOP 397: Co-op/Planetarium
COOP 497: Intern/Planetarium
COOP 398: Co-op/Women's Studies
COOP 498: Intern/Women's Studies

General Studies Courses



General Studies
Courses

General Studies Courses

Courses carrying the GS label are interdisciplinary in nature or are courses which do not fit into any of the usual academic disciplines. They are taken as free electives, as personal development and life skills under general education, or may with departmental approval be substituted for required courses in some majors.

- GS 109:** *FOREIGN LITERATURE IN TRANSLATION* **3 s.h.**
Offered by the Department of Modern Languages and Cultures, listed as FR 109, GER 109, or SPAN 109.
- GS 123:** *INTRODUCTION TO LOCATING AND ORGANIZING INFORMATION* **3 s.h.**
Examines information sources and information organization; methods for surviving information explosion. Recommended as an elective for non-library science students. Not creditable toward library science specialization. GS 123 earns credit toward graduation only when taken by freshmen and sophomores. Juniors and seniors will receive credit, but such credit will not count toward graduation. On demand.
- GS/ECON 140:** *CONSUMER ECONOMICS* **3 s.h.**
Explores major aspects of personal financial management, including budgeting of income and expenditures, transactions and relations with banks and other lending institutions, insurance and retirement plans, home ownership, personal taxes, savings, and investment plans. Alternate years.
- GS 222:** *CREATIVE PROBLEM SOLVING* **3 s.h.**
Investigates the elements of solving a variety of problems, beginning with closed problems such as puzzles or cryptograms and progressing through simple games and complex games to the complexities of open-ended problems of personal and political life. Emphasizes development of proficiency in dealing with new situations and techniques through actual practice. No prerequisite. Each semester.
- GS/BIOL 225:** *HUMAN GENETICS* **3 s.h.**
Examines Mendelian genetics and the inheritance of human genetic disease. Investigates the anatomical, physiological, biochemical, and genetic basis of human diseases, including diabetes, atherosclerosis, and cancer. Analyzes the genetic basis of mental illness. Explores behavioral genetics and sociobiology, recombinant DNA, "gene therapy," and medical ethics. Non-majors course for students who wish to know more about human genetics than is available in basic biology. May be particularly useful for students in anthropology, rehabilitative sciences, psychology, sociology, and special education. Prerequisite: One semester of biology or permission of instructor. Annually.
- GS 230:** *SPECIAL TOPICS: THE EUROPEAN MIND* **3 s.h.**
Offered by the Department of Modern Languages and Cultures, listed as FR 101, GER 101, SPAN 101. See course description under appropriate language listings.
- GS 242:** *YOU AND THE LAW* **3 s.h.**
Surveys the major fields of law. Emphasizes historical development, basic legal principles, legal theory and procedure, and their relation to the individual. Business administration majors may not take this course. Annually.
- GS/SPED 262:** *INTRODUCTION TO SERVICE LEARNING* **3 s.h.**
Provides an overview of service learning. Presents history, legislation, and theory relevant to service in addition to the components and standards of service learning. Students will be prepared for service through readings in the subject area, sensitivity training, conflict resolution, and etiquette. Students will then spend 30 hours in community-based service activity at three of five priority sites. Students will reflect in writing upon their service and will attend weekly seminars. Prerequisite: ENG 110. On demand.
- GS 411/CHEM 211:** *SCIENCE AND SOCIETY* **3 s.h.**
Describes the process of science as an ongoing and continuously developing means of describing the natural world. Examines what science is and how it is done. Promotes science literacy. Emphasizes written and oral communication skills as well as the ability to understand important topics in science, along with the policy and ethical questions raised. Open to students in all academic areas.

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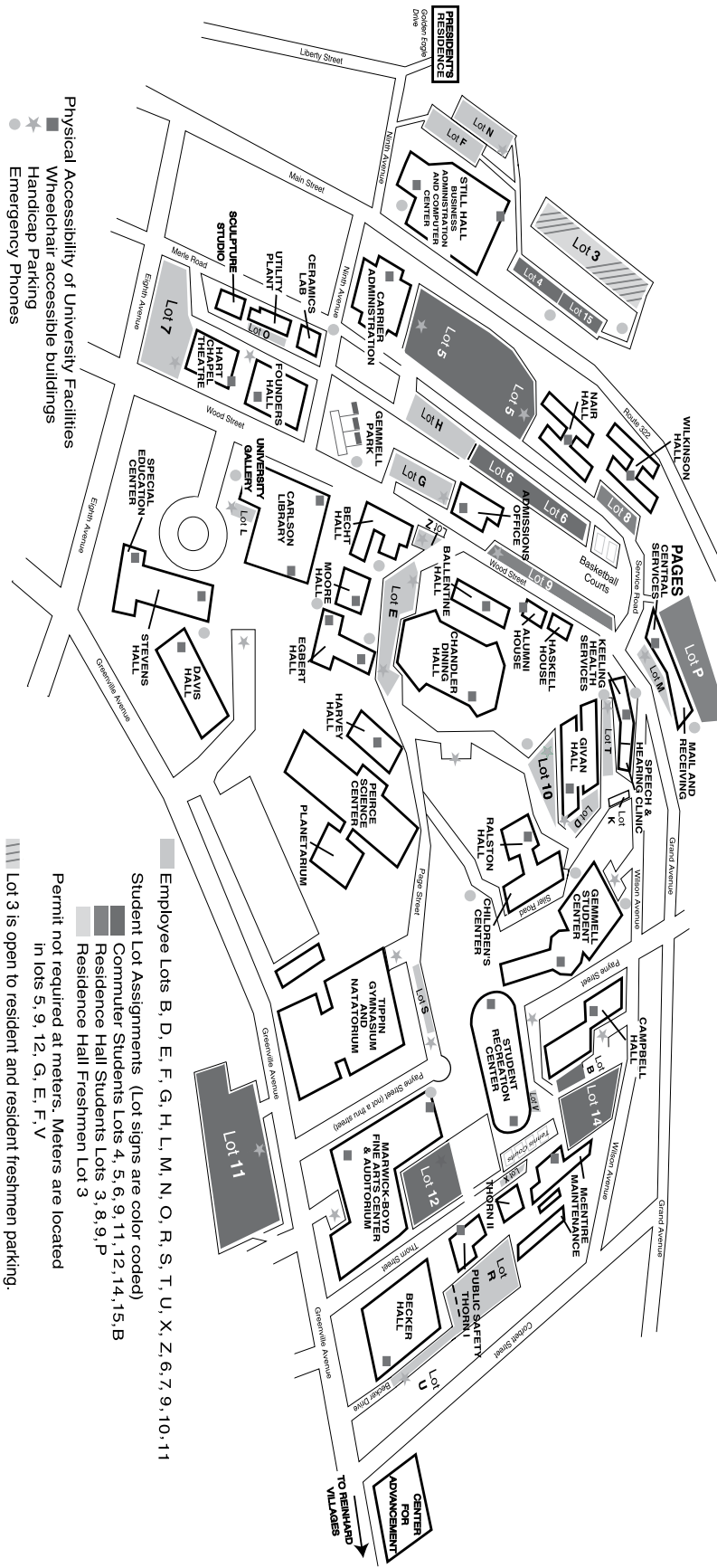
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CLARION UNIVERSITY
SINCE 1867

Clarion University of Pennsylvania
840 Wood Street
Clarion, PA 16214-1232

Yield to Pedestrians in Crosswalks



Physical Accessibility of University Facilities

- Wheelchair accessible buildings
- ★ Handicap Parking
- Emergency Phones

- Employee Lots B, D, E, F, G, H, L, M, N, O, R, S, T, U, X, Z, 6, 7, 9, 10, 11
- Student Lot Assignments (Lot signs are color coded)
 - Commuter Students Lots 4, 5, 6, 9, 11, 12, 14, 15, B
 - Residence Hall Students Lots 3, 8, 9, P
 - Residence Hall Freshmen Lot 3
- Permit not required at meters. Meters are located in lots 5, 9, 12, G, E, F, V
- Lot 3 is open to resident and resident freshmen parking.

Clarion Campus Map and Facilities

Clarion Campus Facilities

ADMISSIONS BUILDING, located on Wood Street, houses Admissions operations.

BALLENTINE RESIDENCE HALL, located on Wood Street, houses 116 men.

BECHT RESIDENCE HALL, on Wood Street, houses 160 women plus faculty offices for International Programs and Academic Counseling.

BECKER HALL, at Greenville Avenue and Thorn Street, houses the Communication Department and the Computer Information Science Department.

CARLSON LIBRARY is on the central campus just off Wood Street (page 11). A complete renovation and expansion of the library was completed in February 2002. It houses the Art Gallery, the Library Science Department, the library faculty and staff, and the university's collection of resource documents.

CARRIER ADMINISTRATION BUILDING, at Main Street and Ninth Avenue, houses offices for the president and staff, the provost and academic vice president and staff, the vice president for finance and administration and staff; Office of the Registrar, Business Office, Human Resources, Social Equity, Student Accounts, and Graduate Studies.

CENTER FOR ADVANCEMENT OF CLARION UNIVERSITY, situated at the corner of Greenville Avenue and Corbett Street, houses the offices of alumni development and the Clarion University Foundation, Inc.

CENTRAL SERVICES, located on Wood Street, houses Publication Offices, duplicating center and print shop, and mailroom operations.

CHANDLER DINING HALL is north of Wood Street behind Ballentine Hall.

DAVIS HALL, on Greenville Avenue, has classrooms and offices for the English Department and the Modern Languages Department.

EGBERT HALL is on the central campus behind Carlson Library. It has administrative offices for the vice president for student affairs and staff, the Department of Counseling, the Office of Financial Aid, Career Services, and the Housing Office.

FOUNDERS HALL is situated at the corner of Wood and Ninth and houses classrooms and a computer laboratory for the History Department and the Political Science, Sociology, and Philosophy Department as well as laboratories for the Anthropology program and studios for the Art Department. Offices for the Dean of Arts and Sciences are on the second floor.

GIVAN RESIDENCE HALL, situated on the hill behind Chandler Dining Hall, houses 250 women.

HART CHAPEL THEATRE is located on Wood Street and Eighth Avenue.

HARVEY HALL is on center campus between Peirce Science Center and Chandler Dining Hall and houses offices and classrooms for the Psychology Department and Women's Studies program.

HAZEL SANDFORD ART GALLERY is located on the Greenville Avenue side of the Carlson Library. The permanent collection covers all media, with special emphasis in photography, prints, artist's books, and ceramics. Exhibitions are scheduled throughout the academic year as well as summer sessions with regular gallery hours weekdays and Sundays.

KEELING HEALTH SERVICES CENTER, off Wilson Avenue behind Givan Hall, has modern clinical and infirmary facilities located on the first floor. The Speech Pathology and Audiology Diagnostic Center is located on the ground floor. The Speech Pathology and Audiology Department is also located on the first floor.

MARWICK-BOYD FINE ARTS CENTER, which stands at the south corner of Payne Street and Greenville Avenue, provides a 1,600-seat auditorium, Little Theatre, Sandford Art Gallery, classrooms, studios, multimedia studio, laboratories, and office and exhibit areas for Art, Music, and Speech and Theatre Departments.

MCENTIRE MAINTENANCE BUILDING on Wilson Avenue south of Payne Street, is the center for physical plant maintenance, the motor pool, and maintenance shops.

MOORE HALL, east of Carlson Library, serves as a reception and meeting facility.

NAIR RESIDENCE HALL provides housing for 450 students and is located on Main Street.

PEIRCE SCIENCE CENTER AND PLANETARIUM between Greenville Avenue and Chandler Dining Hall, provides modern classrooms, laboratories, and offices for the Departments of Biology, Chemistry, AGES, and Mathematics; a 250-seat lecture hall; and a planetarium.

RALSTON RESIDENCE HALL houses 160 students and is situated on the hill just behind Chandler Dining Hall. The **Earl R. Siler Children's Learning Center**, featuring a day care center for children of students and employees, is located on the ground floor. The **Center for Academic Enrichment** is located on the first floor.

RECREATION CENTER, a facility opened in 1999, is located on Payne Street next to Campbell Hall. It contains basketball courts, a running track, a fitness center, and a climbing wall.

REIMER STUDENT CENTER/JAMES GEMMELL STUDENT COMPLEX, located at the north corner of Wilson Avenue and Payne Street, provides offices for student government and student activities personnel. Also housed in this area are the bookstore, snack bar, meeting rooms, and other recreation areas for students. There is also a multi-purpose room which temporarily housed library services during the Carlson renovation and expansion project (2000-2001).

SPECIAL EDUCATION CENTER, at the corner of Eighth and Greenville, houses the reception area of the Educational Appraisal Clinic and therapy rooms, along with some faculty offices and classrooms.

STEVENS HALL, off Greenville Avenue, provides classrooms and faculty offices for education and human services programs and offices for the College of Education and Human Services.

STILL HALL BUSINESS ADMINISTRATION AND THE LEWIS COMPUTER CENTER are in a single building on the north campus at Main Street and Ninth Avenue housing the information center, computing services, the Departments of Accountancy, Administrative Science, Economics, Finance/Real Estate, and Marketing.

THORN HOUSES 1 AND 2, located on Thorn Street, house the Public Safety Department (1) and plant services, facilities planning, and purchasing operation (2).

TIPPIN GYMNASIUM-NATORIUM stands at the north center of Payne Street and Greenville Avenue. It houses classrooms, offices, and gym areas for the Health and Physical Education Department, a 3,600-seat arena for varsity sports, and a natatorium.

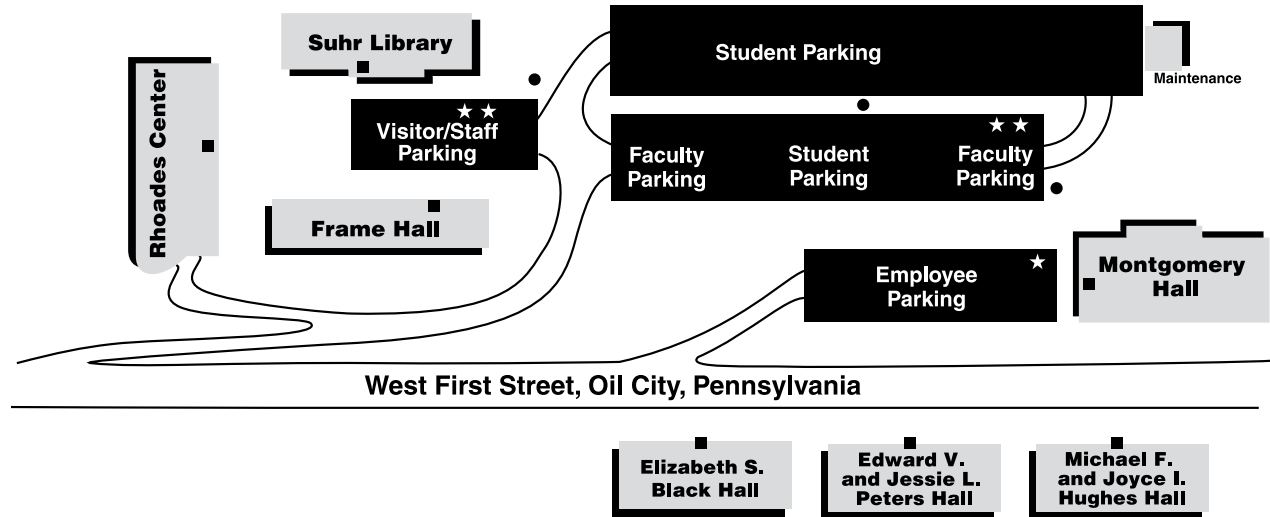
WILKINSON RESIDENCE HALL houses 450 students on the Main Street area of the campus. The basement houses offices for the Clarion Alliance for Telecommunications Services.

Venango Campus

Clarion University of Pennsylvania
1801 West First Street
Oil City, PA 16301-3297



- ★ Handicap Parking
- Wheelchair Accessible Buildings
- Emergency Phones



Venango Campus Facilities

RICHARD C. FRAME HALL, the original building, contains the administrative office, admissions and financial aid, career services, continuing education, marketing and university relations, classrooms, and the Department of Applied Technology.

ROBERT W. RHOADES STUDENT CENTER provides student lounge and recreation facilities, a gymnasium, an auditorium-theatre, a bookstore, a fitness center, and food services.

THE CHARLES L. SUHR LIBRARY BUILDING (page 11) houses the library, study facilities, faculty offices, and the Barbara Morgan Harvey Center for the Study of Oil Heritage.

MONTGOMERY HALL is a modern classroom and office building which houses the School of Nursing and Allied Health, Student Affairs, the computer laboratory, the Learning Support Center, interactive video classrooms, The Writing Center, and faculty offices.

ELIZABETH S. BLACK HALL, **EDWARD V. & JESSIE L. PETERS HALL**, and **Michael F. and Joyce I. Hughes Hall** are attractive, upscale apartment buildings offering students a private bedroom and a semi-private bathroom with shared kitchen facilities and living and dining areas. Each apartment is fully furnished and houses four students.