Academic Calendar

FALL 2007 TERM

JULY
25  Academic Success/Orientation Program (8am – 2pm)

AUGUST
13  50% of Tuition/Fees Payment Due for Fall 2007
20,22,24  Academic Success/Orientation Program (8am – 2pm)

SEPTEMBER
3  Labor Day (COLLEGE CLOSED)
6  Practical Nursing Graduation (6pm)
6  Academic Success/Orientation Program (8am – 2pm)
11  Academic Success/Orientation Program (8am – 2pm)
13  Academic Success/Orientation Program (5-8pm)
Parents’ Orientation Program (5-8 pm)
10-Oct. 5 Financial Aid Bookstore charges available
10  Last Day to Apply for Fall 2007
14  Last Day for Placement Testing for the Fall 2007
17-21  Faculty Return & Staff Development Days
21  Last Day to Register for Fall 2007 Term (All Students)
21  Last Day to Withdraw from the Fall 2007 Term
(with a Full Refund of Tuition and Fees)
24  FALL CLASSES BEGIN
24  25% of Tuition/Fees Payment Due for Fall 2007
24-26  Schedule Change Period for Fall Term

OCTOBER
5  Application Deadline for December Graduation
8  Presidential Inauguration (No Classes)
    (All offices within the College, including the library, tutoring
    center and computer labs, will be closed for the day)
9  Last Day to Withdraw Without a Grade
10  Mid-Term Grades Due
19-Nov. 14  Financial Aid Bookstore charges available
21  Last Day to Apply for Winter 2008
21  Last Day for Placement Testing for the Winter 2008 Term
(with a Full Refund of Tuition and Fees)
22-26  Winter Break I (COLLEGE CLOSED)
28  Last Day for Placement Testing for the Winter 2008 Term
29, Jan. 1  Winter Break II (COLLEGE CLOSED)

DECEMBER
8  FALL CLASSES END
12  Final Grades Due
13  Fall Grades viewable on WebAdvisor
13  Academic Success/Orientation Program (8am – 2 pm)
13  December Graduation – 7pm
14  Practical Nursing Program - Term I Ends
17  Academic Success/Orientation Program (5-8pm)
Parents’ Orientation Program (5-8 pm)
19-Jan. 11  Financial Aid Bookstore Charges Available for Winter 2008
21  Last Day to Apply for Winter 2008 (New Students Only)
22-26  Winter Break I (COLLEGE CLOSED)
28  Last Day for Placement Testing for the Winter 2008 Term
29, Jan. 1  Winter Break II (COLLEGE CLOSED)

WINTER 2008 TERM

NOVEMBER
19  50% of Tuition/Fees Due for Winter 2008

DECEMBER
13  Academic Success/Orientation Program (8am – 2 pm)
17  Academic Success/Orientation Program (5-8pm)
Parents’ Orientation Program (5-8 pm)
19-Jan. 11  Financial Aid Bookstore Charges Available for Winter 2008
21  Last Day to Apply for Winter 2008 (New Students Only)
22-26  Winter Break I (COLLEGE CLOSED)
28  Last Day for Placement Testing for the Winter 2008 Term
29, Jan. 1  Winter Break II (COLLEGE CLOSED)

JANUARY
2  Practical Nursing Program – Term II Begins
2  Last Day to Register for the Winter 2008 (All Students)
2  Last Day to Withdraw from the Winter 2008 Term
(with a Full Refund of Tuition and Fees)
3  WINTER CLASSES BEGIN
3  25% of Tuition/Fees Payment Due for Winter 2008
3-7  Schedule Change Period for Winter
17  Last Day to Withdraw Without a Grade
21  Martin Luther King Jr. Day (COLLEGE CLOSED)

FEBRUARY
4  Projected Date for Financial Aid Refunds for Winter 2008
5  Remaining 25% of Tuition/Fees Due for Winter 2008
7  Faculty and Staff Development Day (No Classes)
8  Mid-Term Grades Due
11  Registration Begins for Currently Enrolled Students for Spring 2008
    (Be sure to check with your advisor about graduation requirements)
15  Last Day to Withdraw with a “W” *
18  President’s Day (COLLEGE CLOSED)
19  Registration begins for new/returning students for Spring 2008
20  50% Tuition/Fees Payment Due for Spring 2008

MARCH
15  Saturday Class (Inclement Weather Make-Up Day)
16  Sunday Class (Inclement Weather Make-Up Day)
17  Last Day to Apply for Spring 2008 (New Students Only)
19  WINTER CLASSES END
19  Application Deadline for June Graduation
20-28  Spring Recess (No Classes)
21  COLLEGE CLOSED
24  Last Day for Placement Testing for the Spring 2008 Term
24  Practical Nursing Program – Term II Ends
25  Final Grades Due to Records Office
26  Winter Term Grades viewable on WebAdvisor
31  25% Tuition/Fees Payment Due for Spring 2008
SPRING 2008 TERM

MARCH
17 Last Day to Apply for Spring 2008 (New Students Only)
20–28 Spring Recess (No Classes)
21 COLLEGE CLOSED
24 Last Day for Placement Testing for Spring 2008 Term
24 Academic Success/Orientation Program (8am – 2pm)
25 Academic Success/Orientation Program (5-8pm)
26-Apr. 11 Financial Aid Bookstore Charges Available
28 Last Day to Register for the Spring 2008 Term (All Students)
28 Last Day to Withdraw from the Spring 2008 Term
(with a Full Refund of Tuition and Fees)

29 SPRING SATURDAY CLASSES BEGIN
31 Practical Nursing Program – Term III Begins
31 25% Tuition/Fees Payment Due for Spring 2008

APRIL
3/31–4/2 Schedule Change Period for Spring Term
4 First day for Fall 2008 Placement Testing
11 Last Day to Withdraw Without a Grade
17 Faculty Office Day (No Classes)
29 Projected Date for Financial Aid Refunds

MAY
1 Remaining 25% Tuition/Fees Payment Due for Spring 2008
7 Mid-Term Grades Due
7 Registration Begins for Currently Enrolled Students
(Use纣 to check with your advisor about graduation requirements)
13 Faculty and Staff Development Day (No Classes)
14 Last Day to Withdraw with a “W” *
14 Registration Begins for New/Returning Students
24-26 Memorial Day Recess (COLLEGE CLOSED)

JUNE
4 Last Day to Apply for Summer 2008 Sessions
9 Last Day for Placement Testing for the Summer 2008 Sessions
12 SPRING CLASSES END
13 Graduation Rehearsal (Sovereign Center - 10am)
13 Health Professions Reception (Sovereign Center—2pm)
13 Graduation Ceremony (Sovereign Center—7pm)
13 Practical Nursing Program – Term III Ends
13 & 16 Faculty and Staff Development Days
18 Final Grades Due
19 Spring Term Grades viewable on WebAdvisor

The college calendar for dual enrollment classes can be obtained by contacting the Coordinator of Special Programs at 610-607-6219 or 1-800-626-1665, Ext. 6219.

PROPOSED 2008-2009 CALENDAR

SUMMER 2008

JUNE
23 SUMMER CLASSES BEGIN

JULY
4 4th of July (COLLEGE CLOSED)

AUGUST
14 SUMMER CLASSES END

FALL SEMESTER 2008

AUGUST
25 FALL SEMESTER CLASSES BEGIN
30–31 Labor Day Recess (COLLEGE CLOSED)

SEPTEMBER
1 Labor Day Recess (COLLEGE CLOSED)
6 SATURDAY CLASSES BEGIN

OCTOBER
26 (No Classes)
27–30 Fall Recess (COLLEGE CLOSED)

DECEMBER
12 FALL SEMESTER CLASSES END
13 Saturday Classes Final Exam
15–18 Final Exam period
24–26 Winter Break I (COLLEGE CLOSED)
31 Winter Break II (COLLEGE CLOSED)

JANUARY SESSION 2009
(for Med Lab Tech students only)

JANUARY
1 Winter Break II (COLLEGE CLOSED)
5 Interim Session Begins
23 Interim Session Ends

SPRING SEMESTER 2009

JANUARY
26 SPRING SEMESTER CLASSES BEGIN
31 Saturday Classes Begin

APRIL
6–8 Spring Break (No Classes)
9–11 (COLLEGE CLOSED)

MAY
15 SPRING SEMESTER CLASSES END
16 Saturday Classes Final Exam
18–21 Final Exam period

* 10 week term classes ONLY
(Check online for all other modular course withdrawal dates).
This College catalog is in effect beginning with the Fall Term 2007 and continuing through the Main Summer Session 2008.

Students who were enrolled at RACC prior to the Fall 2005 Term and who have maintained matriculation without interruptions of no more than one year, will not be subject to the new policy and the College will be able to use the cumulative GPA that includes both pre-collegiate and college-level courses for graduation eligibility and approval. Meanwhile, “all new students” in the Fall 2005 Term and “returning students who have not maintained matriculation at RACC during one year” will be subject to the new policy’s effective start date of Fall 2007 Term.
MISSION STATEMENT

Reading Area Community College, serving primarily Berks County, is a publicly-supported, comprehensive community college which awards the Associate in Arts, the Associate in Applied Science and the Associate in General Studies degrees. Certificates and diplomas in employment fields are awarded as well. The mission of the College is to provide the following: the first two years of a Bachelor’s degree; career education for immediate employment; courses to assist in the transition from high school to college; community education and public service activities; and training for area business and industry. The College strives to do so within an atmosphere that is open, supportive, safe and responsive to the needs of students and of the community.

TELEPHONE DIRECTORY

Admissions Office 610.607.6224
Adult Education, GED, ESL 610.607.6227
Cashier’s Office/Student Bills 610.607.6235
Center for Academic Success/Services for Students with Disabilities 610.607.6245
College@Home 610.607.6219
Workforce and Economic Development/Community Education 610.607.6231 or 610.607.6232
Day Care Center (Education Laboratory Center) 610.607.6236
Vice President for Enrollment Management/Student Services 610.607.6255
Fax Number/Student Services 610.607.6290
Financial Aid 610.607.6225
General Information 610.372.4721 or 1.800.626.1665
Announcement Mailbox/Inclement Weather 610.607.6293
Records Office 610.607.6243
Schmidt Training and Technology Center 610.898.8289
TDD - Berks Hall 610.236.3940
TDD - Yocum Library 610.236.3941
Website www.racc.edu
On behalf of the entire College community—our faculty, staff, administration, Trustees and Foundation Board members—I encourage you to learn more about Reading Area Community College’s educational programs and services.

At Reading Area Community College our focus is on student success. Our instructional approach and student services create a supportive learning community for those coming to our College from many backgrounds, with varied life experiences and different goals. Yet once here they all find an environment where individual educational needs are addressed in an atmosphere of personal support. Providing opportunities and opening doors to future educational and career success are the cornerstones of our College.

Reading Area Community College continues to grow in order to meet the changing and diverse needs of the City of Reading and all of Berks County. Two examples of the College’s responsiveness to the community include the Schmidt Training and Technology Center and the Miller Center for the Arts. As the revitalization of the City of Reading progresses, Reading Area Community College will continue to be an important contributor to these initiatives.

We are committed to meeting the region’s education and workforce training needs. In doing so, we will continue to be a dynamic institution that is truly the COMMUNITY’S COLLEGE.

Anna D. Weitz, Ph.D.
President

THE 2007-2008 BOARD OF TRUSTEES OF READING AREA COMMUNITY COLLEGE

Dr. Leo A. DeSantis, Chair
Edwin L. Stock, Vice Chair
Nancy L. Snyder, Secretary

Dr. Sam A. Alley
Connie M. Archey
James M. Connors
Kathleen D. Dautrich
James A. Gilmartin
Irwin S. Rosner

Mary Ann Chelius Smith
Dean E. Sheaffer
Joseph A. Vaccaro
John C. Woodward
Victor R. H. Yarnell
James H. Yocum

BERKS COUNTY BOARD OF COMMISSIONERS

Sponsor of the College
Judith L. Schwank, Chair
Thomas W. Gajewski, Sr.
Mark C. Scott
# Table of Contents

**Introduction**
- Institutional Goals .................................................................................................................. 1
- Accreditations ............................................................................................................................ 1
- Memberships ............................................................................................................................... 1
- Grant Funded Program Partnerships ......................................................................................... 1

**Admissions Information**
- Accessibility & Services for Students with Disabilities ................................................................. 2
- Placement Tests .......................................................................................................................... 2
- Notification of Acceptance .......................................................................................................... 2
- Categories of Admission ............................................................................................................ 2
- General Admissions Procedures ................................................................................................. 3
- Selective Admissions Procedures ............................................................................................... 3
- International Student Admission ............................................................................................... 6
- Readmission Procedures ........................................................................................................... 6

**Tuition** ...................................................................................................................................... 7

**Fees** .......................................................................................................................................... 8

**College Honors Program** ....................................................................................................... 10

**College Assessment/Articulation**
- Credit by Examination .............................................................................................................. 11
- Portfolio Development for Life Experience ............................................................................... 11
- Transfer Credit ........................................................................................................................... 12
- Regents College Exam (ACT-PEP) ............................................................................................. 12
- CLEP Testing .............................................................................................................................. 12
- Military Service Training Evaluations ...................................................................................... 12
- Advanced Placement ............................................................................................................... 12

**Advising/Counseling Services**
- Advising Center ....................................................................................................................... 14
- Center for Academic Success .................................................................................................... 14
- Transfer Center Services ......................................................................................................... 14
- Career Center Services ............................................................................................................. 14
- Cooperative Education ............................................................................................................. 14
- Tutoring Services ..................................................................................................................... 15

**Financial Aid**
- Overview ................................................................................................................................... 16
- How to Apply ............................................................................................................................... 16
- Eligibility Requirement ............................................................................................................. 16
- Veterans Services ...................................................................................................................... 16
- Types of Financial Aid ............................................................................................................. 16
- Scholarships .............................................................................................................................. 17
GENERAL INFORMATION

Reading Area Community College provides information to current and prospective students concerning our academic programs, costs of attendance and refund policy as required by the Student Consumer Information Regulation established under Title I of the Educational Amendments of 1976.

The College has designated two contact persons for Student Consumer Information Services. Requests for Financial Aid information and application materials should be directed to the Director of Admissions. Questions regarding academic programs and other student concerns should be directed to the Vice President for Enrollment Management/Student Services.
INSTITUTIONAL GOALS
Reading Area Community College is committed to:
1. Offer high quality educational programs, leading to an associate degree, certificate or diploma which prepare students to transfer to baccalaureate degree granting institutions or to enter business and industry.
2. Provide programming and services to respond to the needs of the community by creating lifelong learning opportunities through adult and continuing education, training for business and industry, community services and cultural enrichment.
3. Offer instructional programs containing a strong general education component which promotes a respect for a multicultural society and which actively involve students in learning for professional and personal growth.
4. Provide students with effective developmental services that link into college level coursework and remedial programs that allow them to reach their potential.
5. Provide educational support services, such as co-curricular activities, counseling, financial aid and advising services, that will act as a complement to the academic programs, facilitate successful completion of programs, and enable students to assume productive roles in society.
6. Act as a partner in the life of the community through outreach activities that support educational, occupational and service organizations, and community interests and be responsive to a rapidly changing environment.
7. Provide a working environment and incentives to attract, develop, and retain a diverse competent administration, faculty and staff who are committed to fulfilling the institutional mission and goals.
8. Secure and allocate the physical and financial resources needed to support the mission and goals of the College through systematic planning and sound management practices.

ACCREDITATIONS
Reading Area Community College is accredited by the following:
- Department of Education of the Commonwealth of Pennsylvania - Associate in Arts Degree, Associate in Applied Science Degree, Associate in General Studies Degree, Certificate of Specializations and Diploma of Specialization.
- Commission on Higher Education of the Middle States Association of Colleges - Full Accreditation
- Pennsylvania State Board of Nursing - Associate in Applied Science Degree in Nursing and Practical Nursing Certificate
- National League for Nursing - Associate in Applied Science Degree in Nursing and Practical Nursing Certificate
- National Accrediting Agency for Clinical Laboratory Science (NAACLS) - Associate in Applied Science Degree in Medical Laboratory Technician
- Committee on the Accreditation for Respiratory Care (COARC) - Associate in Applied Science Degree in Respiratory Care and Respiratory Therapist Certificate

MEMBERSHIPS
Reading Area Community College is a member of the following organizations:
- The American Association of Community Colleges
- The Association of Community College Trustees
- The Pennsylvania Commission for Community Colleges
- The Pennsylvania Association of Colleges and Universities
- National Association of College and University Business Officers
- The Council of Associate Degree Programs of the National League for Nursing
- The Council of Practical Nursing Programs of the National League for Nursing
- Pennsylvania Colleges of Associate Degree Nursing
- League for Innovation in the Community College

GRANT-FUNDED PROGRAM PARTNERSHIPS
- National Science Foundation - Nanofabrication
- Pennsylvania Department of Community And Economic Development - Nanofabrication
- Pennsylvania Department of Community and Economic Development/Customized Job Training - Workforce and Economic Development Network of Pennsylvania
- Pennsylvania Pathways - Early Childhood Education Providers
- U.S. Department of Education - Preparing Tomorrow’s Teachers Today (PT3)
Reading Area Community College is approved by the Department of Education of the Commonwealth of Pennsylvania as an institution of higher education, and is authorized to award the Associate in Arts Degree, the Associate in Applied Science Degree, the Associate in General Studies Degree and the Certificate of Specialization, as well as appropriate diplomas and certificates.

The College operates on a three-term basis consisting of ten weeks each, including examination periods and vacations. The unit utilized for credit courses is the semester hour.

Reading Area Community College has an "open admissions" policy, which means that any student who has received their high school diploma or G.E.D. certificate will be accepted. Also, those students with other qualifications that indicate the potential for success will be considered for admission on an individual basis. College entrance examinations such as the SAT or ACT are not required, and while high school records or college transcripts must be submitted to complete the application file, they are not used as a basis for admission to most programs of study.

Prospective students (and their families) who are having difficulty completing the application process may obtain assistance from the Admissions Office.

The open admissions policy does not guarantee acceptance into a specific program of study. Some programs have requirements that must be met in order for students to secure licensure or certification upon completion of the program. These programs must comply with regulations established by various governing bodies. Other factors include limitations on enrollment based upon availability of college or community facilities used for practice experience.

The following Associate in Applied Science and Certificate of Specialization programs have selective admissions procedures:
- Culinary Arts - A.A.S.
- Medical Laboratory Technician (M.L.T.) - A.A.S.
- Nursing (R.N.) - A.A.S.
- Occupational Therapy Assistant at Lehigh Carbon Community College
- Physical Therapy Assistant at Lehigh Carbon Community College
- Practical Nursing (L.P.N.) - Certificate
- Professional Pilot Program (A.A.S.)
- Respiratory Care (R.R.T.) - A.A.S.

ACCESSIBILITY & SERVICES FOR STUDENTS WITH DISABILITIES
Reading Area Community College strives to provide an environment that allows all individuals to develop to their fullest potential. In keeping with federal legislation and regulations, reasonable accommodations and individualized attention are provided for students with disabilities in order to ensure access to the campus and all of its academic programs and services. For information, contact the Center for Academic Success.

PLACEMENT TEST
All students are required to take placement tests before registering for credit courses at Reading Area Community College. Prior to taking placement test, students with documented disabilities should notify the Center for Academic Success for appropriate accommodations.

Based on the scores they receive, students will be advised concerning the appropriate courses to take as they begin their college careers. In some cases, students may move directly into freshman level English or mathematics courses, in others, they will need to take developmental courses that will help to ensure their future success.

Placement tests can be waived only for students who have completed a Freshman-level English Composition and/or a Freshman-level Mathematics (or higher) course from an accredited institution with a grade of "C" or better. Students must provide the Advising Center with evidence of completion of such courses. This can be in the form of either transcripts or formal grade reports.

Students who have attended Reading Area Community College and withdrew for one or more years, must re-apply for admission. Students who have not completed relevant coursework within two years of taking the placements tests will need to retake the appropriate test(s).

NOTIFICATION OF ACCEPTANCE
Applicants will be notified of their acceptance as soon as possible after all necessary items have been received and processed by the Admissions Office. Students who submit applications or records under false pretenses are subject to dismissal without credit.

CATEGORIES OF ADMISSION
There are two general categories under which applicants may be admitted to Reading Area Community College. They may enroll as full-time or part-time students in either category.

1. DEGREE CANDIDATES are applicants who wish to earn an associate degree or certificate. The College offers the Associate in Arts, Associate in Applied Science, Associate in General Studies, and the Certificate of Specialization.

2. NONDEGREE CANDIDATES* are those who wish to enter the College for purposes other than earning an associate degree or certificate. The category includes the following types of students:
a. TRANSIENT: Students attending another college or university who elect to take certain courses at Reading Area Community College and then return to their home institution.

b. HEADSTART TO COLLEGE: Students who wish to begin college-level academics before their actual graduation from high school. Candidates must be in good academic standing at their high school. Ideally, the course(s) selected should be for the purpose of earning College credits. However, students can be considered for admission to the College for other reasons or on a case-by-case basis. The Director of Admissions reserves the right to decline admission to any Headstart to College applicant after a review of their transcripts and required placement tests scores. Should the applicant score at a developmental level in reading, writing and mathematics, the recommendation will be for completion of high school before enrollment at RACC.

(Please note the special application procedures which follow for other considerations.)

1. Apply for the college.
2. Request that your parent or guardian and high school forward an official copy of their previous scholastic record.
3. Meet with the M.L.T. program director for an interview to discuss academic transcripts forwarded and take the placement tests.
4. Submit the application for admission.
5. Schedule a follow-up appointment with the Director of Admissions.

All Others:
1. Submit the application for admission.
2. Take placement tests.

NOTE: Any applicants who do not enroll in classes within five years of the original term for which they applied are required to re-submit all application materials and all transcripts. No records will be kept longer than five years for applicants who do not enroll in classes.

SELECTIVE ADMISSIONS PROCEDURES
All applicants must fulfill the requirements for admission as degree candidates; that is, apply, have official copies of all academic transcripts forwarded, and take the placement tests. Additional procedures must also be followed for the College’s selective majors.

Culinary Arts Programs
All Culinary Arts students must pass a criminal record check and a child abuse history clearance before beginning the program. Prior to registering for CUL 201, CUL 215, CUL 235, CUL 240 or CUL 255, applicants must:
1. Confer with the Culinary Arts Job Site Supervisor to set up job sites where all course competencies are to be mastered.
2. Have a medical examination certifying the student to be able to perform duties required on the job site.
3. Submit evidence of current health insurance at the beginning of each culinary arts (CUL) course.

Medical Laboratory Technician Program
The student from Lehigh Carbon Community College who has successfully completed specific general education requirements will be granted sophomore-level standing and admission to the Medical Laboratory Technician Program per stated admission requirements at Reading Area Community College.

Applicants must:
1. Be a graduate of an approved secondary school or hold a high school equivalency diploma.
2. Have completed, with grades of "C" or better, two years of biological science (including advanced biology), laboratory chemistry, and algebra. If the previous academic experience is lacking or if placement scores indicate the need for preparatory work, the following Reading Area Community College courses may be used to provide the needed academic background: BIO 150, CHE 120, MAT 030, MAT 110.
3. Submit two letters of reference; one of which must be from a faculty member, either full-time or adjunct.
Applicants must:

1. Have completed work equal to a standard high school course with a minimum of 16 units, including 4 units of English, 3 units of Social Studies, 2 units of Mathematics (1 of which is algebra), and 2 units of Science with a related laboratory or its equivalent. Applicants whose high school academics were completed outside of the United States will have to apply for a Certificate of Preliminary Education through the Pennsylvania Department of Education.

2. Have completed, with grades of "C" or higher, one course in algebra, biology, laboratory chemistry, and one advanced laboratory science course such as advanced biology, advanced chemistry, anatomy & physiology, or physics. The course must be one Carnegie unit in length, or its equivalent.

3. If enrolled in grade 12, applicants must submit a list of their courses for the senior year. Upon graduation a final transcript must be submitted.

4. Take college placement tests. If the student does not place at the English Composition level on the reading/writing portion of the placement tests admission, Students must place at the English Composition level or they have to apply for a Certificate of Preliminary Education.

5. Students enrolled at Reading Area Community College must maintain a cumulative G.P.A. of 2.5 or higher to be eligible for admission to the Nursing Program. Students must place at the Algebra II level, then he or she must take the recommended math course through and including Algebra I prior to admission to the Nursing Program. Example: If the math placement score indicates placement into Basics then the student must take Basics of College Math or Math Fundamentals, and Algebra I prior to admission. Students must place at the English Composition level on the reading/writing portion of the placement tests or take the appropriate courses.

6. Students enrolled at Reading Area Community College must attain and maintain a cumulative G.P.A. of 2.5 or higher to be eligible for admission to the Nursing Program.

7. Submit evidence of good mental, physical and dental health.

8. Submit evidence of required immunizations or antibody titres.

9. Submit evidence of current CPR Certification for the Healthcare professional at the beginning of each nursing course.

10. Sign an affidavit stating that they have not been convicted of a felonious act. The Professional Nursing Law (Act 69, PL 409, No. 10 and PL 233 No. 64) provides that as of January 1, 1986:

   The Board of Nursing shall not issue a license or certificate to an applicant who has been convicted of a felonious act prohibited by act of April 14, 1972 (P.L. 233, No. 64), known as "The Controlled Substance, Drug, Device and Cosmetic Act," or convicted of a felony relating to a controlled substance in a court of law of the United States or any other state, territory or country unless:

   (a) At least ten (10) years have elapsed from the date of conviction;

   (b) The applicant satisfactorily demonstrates to the Board of Nursing that they have made significant progress in personal rehabilitation since the conviction such that licensure of the applicant should not be expected to create a substantial risk of harm to the health and safety of patients or the public or a substantial risk of further criminal violations; and

   (c) The applicant otherwise satisfies the qualifications contained in or authorized by this act.

*The term "convicted" shall include a judgment, an admission of guilt or a plea of nolo contendere.

11. Submit Criminal Records clearance and Child Abuse History Clearance. In addition to the State Board of Nursing affidavit, students must submit evidence of a Pennsylvania State Police Criminal Check and a Pennsylvania Child Abuse History Check. Applicants from out-of-state are required to submit a FBI Criminal Background Check. An applicant convicted of any of the "prohibitive offenses" contained in the Older Adult Protective Services Act or an application convicted of any type child abuse will be disqualified from admission to the Nursing programs or continuing in the program regardless of the amount of time that has elapsed from the date of conviction. A second affidavit concerning this information must be signed upon application.

12. Attend the group interview at the scheduled date and time. Note:

I. Effective July 1, 2006, Anatomy & Physiology I and Anatomy & Physiology II must be completed within five years of application to Nursing Program.

II. For progression and graduation, student must earn a "C" or higher in each of the courses in the Nursing curriculum.

III. Advanced Standing Process - Make an appointment with the Assistant Director of the Nursing Program to review the following:

   A. Licensed Practical Nurses

      1. Meet requirements for admission to the Nursing Program.

      2. Students wishing to be advanced placed into nursing register with the College Assessment Center and pay the requisite fees. A receipt for payment must be presented in order to test out of Nursing I, II and/or III.

      3. Nursing I - Take Fundamentals of Nursing (Excelsior College) test; and the Nursing I skills test.

      4. Nursing II - Take Nursing II Comprehensive Exam (including Peds principles) and Nursing II skills test.

      5. Nursing III - Take Nursing III Comprehensive Exam (including normal OB) and Nursing III skills test.

      6. Students enter the program at the appropriate level based upon their test results.

      7. Applicants who test out of NUR 120, NUR 130 or NUR 140 are required to enroll in and successfully complete NUR 111 Transition to Nursing, prior to entering any clinical course.

      8. This process is based on the Pennsylvania Articulation Model. Advanced placement is for an LPN who is a graduate of any NLN accredited practical nursing program.

Ocupational Therapy Assistant and Physical Therapist Assistant:

The student from Reading Area Community College who has successfully completed specific general education requirements will be granted admission to the Physical Therapist Assistant Program or Occupational Therapy Assistant Program per stated admission requirements at Lehigh Carbon Community College. The student must see advisor or transfer counselor.

Practical Nursing Program

Applicants must:

1. Be a graduate of an approved secondary school or hold a high school equivalency diploma. Applicants whose high school academics were completed outside of the United States will have to apply for a Certificate of Preliminary Education through the Pennsylvania Department of Education.
2. Take the College’s placement tests and meet with an advisor from the Center for Academic Success.
3. Complete the required foundation coursework and maintain a GPA of 2.5 or better. The prerequisite coursework is as follows:
   - MAT 020 Basics of College Mathematics
   - COM 021 Basics of College Reading
   - ORI 102 College Success Strategies
   - COM 031 Basics of College Study Skills
   - COM 061 Advanced Reading
   - COM 051 Basics of College Writing
   - MAT 030 Algebra I
   - BIO 120 Biological Concepts
   - CHE 120 Principles of Chemistry

NOTE:
   a. All PN students must take the college’s placement tests and enroll in all relevant courses designed to meet minimum program prerequisites.
   b. All PN students may have COM 051 and COM 061 waived if an appropriate score is obtained on the college’s placement tests at the regular-entry English Composition level (i.e., COM 121).
   c. All PN students must take the mathematics component of the college’s placement tests and he/she must score at the Algebra II math course level.
   d. Students possessing a high-school level biology and/or chemistry course (with lab) with a “C” or better will satisfy this/these prerequisites. Such high school-level prerequisite courses(s) must be completed within the past five years of high school graduation and subsequent program application to RACC.
4. Show evidence of good mental, physical and dental health.
5. Submit evidence of required immunizations or antibody titres.
6. Submit evidence of current C.P.R. certification for the Healthcare professional at the beginning of the program year.
7. Submit evidence of current health insurance prior to enrollment in PNP coursework.
8. Sign an affidavit stating that they have not been convicted of a felonious act. The Practical Nursing Law (P.L. 1211, No. 376, March 2, 1956, as amended through 1985) provides that as of January 1, 1986:
   The Board of Nursing shall not issue a license or certificate to an applicant who has been convicted of a felonious act prohibited by the act of April 14, 1972 (P.L. 233, No. 64), known as “The Controlled Substance, Drug, Device and Cosmetic Act,” or convicted of a felony relating to a controlled substance in a court of law of the United States or any other state, territory or country unless:
   (a) At least ten (10) years have elapsed from the date of conviction;
   (b) The applicant satisfactorily demonstrates to the Board of Nursing that they have made significant progress in personal rehabilitation since the conviction such that licensure of the applicant should not be expected to create a substantial risk of harm to the health and safety of patients or the public or a substantial risk of further criminal violations; and
   (c) The applicant otherwise satisfies the qualifications contained in or authorized by this act.
*The term “convicted” shall include a judgment, an admission of guilt or a plea of nolo contendere.
9. In addition to the State Board of Nursing affidavit, you must submit evidence of a PA Child Abuse History Clearance and a PA State Police Criminal Record Check. Applicants from out-of-state are required to submit a FBI criminal background check. An applicant convicted of any of the “prohibitive offenses” contained in the Older Adults Protective Services Act (Act 169 as amended by Act 13) or any type of child abuse will disqualify you from admission or continuing in the program regardless of time elapsed from the date of conviction. A second affidavit concerning this information must be signed.

11. All qualified students will be invited to attend a mandatory Information Session to receive forms for the required documents previously stated. Once the completed required documents have been submitted and approved, the qualified student will be fully accepted into the PNP. All questions can be directed to the Division of Health Professions (610)607-6226 or (610)372-4721, ext. 5441 or 3944.

Please note, a student may be readmitted only 1 time to this program.
1. For progression and graduation, student must earn a “C” or higher in each course of the Practical Nurse Program.
2. Students must successfully complete a math test for progression into Winter Term. Math tutoring is made available during class time.
3. Advanced Placement Process - please refer to Advanced Placement Policy for Practical Nursing Program, Penn Hall Room 430, 610-372-4721, ext. 5440 or 5441.
4. This program is one year in length after all prerequisite courses have been completed.

Professional Pilot Program
An FAA medical certificate is required for enrollment.

Respiratory Care Program
Applicants must:
1. Meet with the program faculty.
2. Attain a cumulative G.P.A. of 2.5 or higher to be eligible for enrollment in Respiratory Care I.
3. Maintain a G.P.A. of 2.0 or higher for progression and graduation in each of the courses in the Respiratory Care curriculum.
4. Have a medical examination certifying the student is physically fit as per the Health Professions Division format.
5. Be currently certified for cardiopulmonary resuscitation by either the American Heart Association for health care providers course, or American Red Cross Professional Rescuer course.
6. Sign an affidavit stating that they have not been convicted of a felonious act. Pass a drug test and pass a criminal background check.
7. Submit evidence of required immunizations and/or antibody titres as required by the approved health form.
8. Submit evidence of current health insurance.

Re-Entry Requirements:
1. Only one re-entry to the program can be provided after receiving a D or F in a Respiratory Care Course.
2. Re-entry into the program is limited two years following unsuccessful competition of a course or withdrawal from a course.
3. The individual must pass a SKILLS examination (written and or performance) for re-entry.

Special Note:
The student from Lehigh Carbon Community College who has successfully completed specific general education requirements will be granted sophomore-level standing and admission to the Respiratory Care Program per stated admission requirements at Reading Area Community College.
**INTERNATIONAL STUDENT ADMISSION**

Reading Area Community College is authorized under Federal law to enroll non-immigrant foreign students under the F-1 status. The following preliminary procedures must be completed before international students can be considered for admission to Reading Area Community College:

1. International student applicants must submit a brief statement of their academic and work background and the objectives they hope to accomplish at Reading Area Community College.

2. International student applicants must complete a written application for admission to Reading Area Community College. An online application may be used with the signature form mailed to Reading Area Community College, International Admissions office.

3. International student applicants must submit a letter of intent stating which major or course of study to be pursued at Reading Area Community College and the expected starting and graduating dates of the program.

4. International student applicants must take the *Test of English as a Foreign Language* (TOEFL), if the applicant is a non-native English speaker. The TOEFL score must be submitted to the college for review. The applicants must score a minimum of 450 (paper-based), 133 (computer-based), 45 (internet-based) or above to be considered for admission. Registration forms and the *TOEFL Bulletin of Information for Candidates* may be obtained from American Consulates, United States Information Agencies, as well as many educational centers throughout the world and on the Internet at [www.toefl.org](http://www.toefl.org). Registration forms may also be obtained by writing, well in advance of the desired test date. (College institution code: 2743)

5. Applicants must send certified copies of all official transcripts (academic records), with English translations, of all training received at the equivalent of high school level or above. All transcripts become the property of the College and will not be returned.

6. Applicants must submit a legal document of sponsorship from the person or organization that is responsible for the student’s tuition, fees, room, board, and any other financial needs for the duration of study at Reading Area Community College. If the student is not sponsored, the document should indicate that the student is responsible for all of the above. Reading Area Community College is not responsible for tuition, fees, room, board, scholarship or any of the financial expenses incurred by students while attending Reading Area Community College.

7. Applicants must submit verification of housing accommodations by lease, rent receipt, or a statement of accommodation provisions by a sponsor or sponsoring agency.

**INTERNATIONAL CREDENTIAL EVALUATOR:**

Educational Credential Evaluators, Inc.
Post Office Box 92970
Milwaukee, WI 53202-0970  U.S.A.

Josef Silny & Associates, Inc.
International Education Consultants
P.O. Box 24823, Coral Gables, FL 33124

World Education Services
Post Office Box 745, Old Chelsea Station
New York, NY 10113-0745  U.S.A.

*This is not a comprehensive listing. The College does not recommend any one evaluator over another. Students may use any accredited evaluation service. All costs are the responsibility of the student.

8. Applicants must submit an original current US or foreign bank statement showing a minimum balance of the cost for one academic year in American dollars. If an original bank statement can not be provided, the applicant must submit a signed official letter from a US or foreign bank stating in American dollars, a minimum balance of the cost for one academic year. The required amount in the account(s) listed on the bank statement or official letter must be accessible by the sponsor and/or student for college related needs while attending Reading Area Community College. This information must be provided in the individual or organization’s name sponsoring the student attending Reading Area Community College. (Internet bank statements will not be accepted.)

Only after all of these steps have been completed will an admissions decision be rendered. Some time may elapse before a decision is reached and the applicant is notified. In any event, the U.S. Immigration and Naturalization Service Form 1-20 (Certificate of Eligibility) will not be issued until the applicant has been accepted for admission to the College.

**Individual visa status changes will not be initiated by the College, but must be handled through the Office of Immigration.**

**READMISSION PROCEDURES**

A student who has previously studied at Reading Area Community College and desires to resume full-time or part-time study after an absence of one year or more must complete an application for readmission. The following procedures and regulations govern readmission to the College:

1. Applicants for readmission must complete the application for admission; check the box which indicates previous attendance at the College.

2. Applicants for readmission must fulfill all other admission requirements in accordance with the procedures outlined.

**NOTE:** In most cases, high school transcripts do not need to be resubmitted by candidates who previously completed courses at RACC. However, transcripts from other schools attended in the interim will be required of those seeking readmission to degree programs.

3. Students seeking readmission to the nursing programs are processed through a special selection committee of the individual nursing program. The committee's decision about readmission is based upon prior performance in the program, length of time the student had not been actively enrolled in a nursing course, programmatic changes since prior enrollment, and space in the currently enrolled class at the point of readmission. For the Associate Degree Nursing program, only one readmission is permitted. For the PNP only 1 readmission is permitted. For specific requirements, see individual programs.

4. Students seeking readmission are subject to the catalog under which they readmit.

**IMPORTANT EMAIL ADDRESSES:**

U.S. Immigration and Customs Enforcement

The Test of English As A Foreign Language (TOEFL)
One of the primary advantages of attending a publicly-supported community college is that tuition is lower than at most other public and private institutions of higher education.

TUITION

(Student to change as deemed appropriate by the College)

<table>
<thead>
<tr>
<th>Student's Residence</th>
<th>Full-Time Students</th>
<th>Part-Time Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residents of Berks County*</td>
<td>$  71 per credit</td>
<td>$  71 per credit</td>
</tr>
<tr>
<td>Other Pennsylvania Residents</td>
<td>$142 per credit</td>
<td>$142 per credit</td>
</tr>
<tr>
<td>Non-Pennsylvania Residents</td>
<td>$213 per credit</td>
<td>$213 per credit</td>
</tr>
<tr>
<td>International Students**</td>
<td>$213 per credit</td>
<td>$213 per credit</td>
</tr>
</tbody>
</table>

*Students living in Berks County must verify their eligibility status to take advantage of the Berks County tuition rate.

**International students must pay balance by the beginning of each term.

TUITION

Tuition for all students is charged on a per credit basis. Full-time students are those registered for eight (8) or more credit hours of coursework per term. Part-time students are those registered for less than eight (8) credit hours of coursework per term.

The college shall apply service charges standard for the industry for returned checks.

Be sure to stop in the Cashier’s Office to be sure your balance is clear. You can always request a copy of your account history.

Should an account need to be referred to a collection agency, the student will be responsible for all collection charges and legal fees standard for the industry. The current collection fee percentage can be obtained through the Cashier’s Office.

PAYMENT OF TUITION

The college accepts cash, check, Mastercard, VISA, debit card or money order. Payment plans are available through the Cashier’s Office. The first 50% of the payment is due approximately 35 days before the beginning of each term. The last 50% will be due 35 days after the beginning of each term. (Extended payment plans for current term - beyond that described above - are an option for those students unable to meet published payment deadlines.)

TUITION REFUNDS

Students dropping a course before the first day that the class begins for which s/he is enrolled will receive a 100% refund of tuition and fees. The student must submit the Schedule Change Form to the Records Office, Berks Hall, Room 107.

Once the day of class begins, students dropping a course before 10% of the time has elapsed between the starting and ending date of the course will receive a 95% refund of tuition and fees. Students dropping a course before 20% of the time has elapsed between the starting and ending date of the course will receive a 50% refund of tuition and fees. There will be no refund for any course dropped after the 20% date has lapsed.

UNEMPLOYED POLICY

Students must be either (a) residents of Berks County, or (b) affected by a Berks County business or industry plant closing or layoff. Students may enroll for a maximum of one term on a tuition-fee basis. Students enrolling in a non-credit course or program can receive a tuition waiver equivalent to the tuition charges for a full-time credit student. College staff will assist students in an attempt to secure the necessary financial aid to continue their education.

Costs such as fees, textbooks and supplies must be paid by the students. Students must have been laid off, permanently or indefinitely, within 12 months prior to the time they make application for the program.
ALL FEES ARE NON-REFUNDABLE AND SUBJECT TO CHANGE AT ANY TIME.

Capital Outlay Fee: Payment of this fee is required of full-time and part-time students who are non-residents of Berks County area. The capital outlay fee is charged to offset the cost of College facilities and equipment. The fee is $2 per credit hour.

College at Home (Telecourse) Fee: A copyright fee of $30 will be charged for each College @ Home course.

Credit By Examination: The cost of credit by institutional examinations is one-third the per credit hour rate for either residents or non-residents.

Graduation Application Fee: A one time fee of $25 will be charged to cover the cost of caps, gowns and diplomas.

Institutional/Activity Fee: This fee supports the general operating budget related to facilities & functions, co-curricular activities, various special programs, and some student-related operating costs. The fee is $18 per credit hour.

International Student Fee: A $35 per credit International Fee will be charged to students who are citizens of a country other than the United States and who enter on non-immigrant visas.

Malpractice Insurance Fee: This fee for Health Professions students provides coverage for one year from the time of payment. The premium will be assessed at the time students complete their registration process in the Business Office. The amount of the fee will be set by the insurance carrier each year. Coverage ceases if the participant withdraws.

Nursing Campus and Clinical Laboratory Fee: A per course fee will be charged in accordance with the SCHEDULE OF FEES.

Official Transcript: A fee of $3 will be charged for each transcript.

Eligibility Requirements:
1. The student must be 65 years of age or older and present proof of age, such as Medicare Card, Driver’s License, Birth Certificate, etc.
2. Clinical sections in the Health Professions Programs are excluded. The requests for tuition-free courses by senior citizens will be honored on a first-come, first-serve basis and will be governed by seats available in any given class.
3. Enrollment of senior citizens must not cause the class size to exceed College enrollment limitations.
4. Individual costs such as textbooks and supplies must be paid by the senior citizens.

If enrollment totals cause senior citizens to be ineligible, these students shall be notified before the first day of classes. An attempt to find another alternative shall be made. Non-credit courses cannot be included in this offer.

SPONSORSHIP STUDENTS
It is the responsibility of the student to present proof of third party sponsorship to the Cashier’s Office prior to registration. RACC will then bill the sponsor.
SCHEDULE OF FEES 2007-2008
(Fees shown are those in effect at the time this Catalog was printed.)

College at Home Copyright Fee $30.00
NUR 120 Nursing I 270.00
  Malpractice Insurance Fee 23.00
NUR 130 Nursing II 270.00
NUR 140 Nursing III 270.00
NUR 220 Nursing IV 270.00
  Malpractice Insurance Fee 23.00
NUR 230 Nursing V 270.00
NUR 240 Nursing VI 270.00
RES 220 Malpractice Insurance Fee 23.00
RES 311 Critical Care
  Malpractice Insurance Fee 23.00
RES 321 Advanced Diagnostics
  Malpractice Insurance Fee 23.00
RES 331 Neonatal
  Malpractice Insurance Fee 23.00
RES 341 Rehabilitation & Home Respiratory Care
  Malpractice Insurance Fee 23.00

Practical Nursing Program - Effective with fall term 2004, all PN students starting their clinical experience (PNP 110, 115, 120, 122, 125, 130, 135, etc.) will be assessed a $270.00 fee each term of their clinical experience which equals a total of four terms.

Respiratory Care Program - Effective with summer term 2005, all Respiratory Care students will be assessed a $270.00 per term fee for their clinical experience (RES200, 201, 212, etc.) which equals a total of four terms.

Medical Laboratory Technician Program - Effective with fall term 2004, all new students enrolling in MLT 120 Basic Immunology and MLT 210 Clinical Laboratory Techniques as well as their clinical experience (MLT 220, 221, 222, etc.), which equals two terms, will be assessed the $270.00 clinical lab fee.

SPECIAL FEES
External Evaluation of Credits for Nonstudents $22.00/course
Individuals needing courses such as military credits, etc., evaluated for posting on an official transcript from an accredited postsecondary institution may request an evaluation by contacting the Admissions Office.

Proctoring Exam Fee for Nonstudents $25.00/exam
Individuals attending another institution enrolled in distance learning courses who need exams proctored may do so by contacting the Coordinator of Recruitment and Assessment.

ADDITIONAL COSTS
Students enrolled in all Health Professions Programs will incur additional costs for program requirements such as an annual physical examination, immunizations (Hepatitis B), textbooks, special equipment, malpractice insurance, health insurance, uniforms, and transportation to clinical facilities.

Any students enrolled in programs in which some class instruction and educational experiences are provided at off-campus facilities may incur additional expenses for transportation and parking.

TYPICAL PERSONAL EXPENSES
(Per Academic Year)
Students should expect to incur personal expenses in addition to tuition and fee expenses. The expenses will include books and supplies, transportation, and meals on campus. Actual costs vary greatly from student to student. The Financial Aid Application provides examples of student expenses for different types of students (single, self-supporting, married, etc.).

COST ADJUSTMENTS DUE TO COURSE LOAD REDUCTION OR WITHDRAWAL FROM COLLEGE
Students who drop a course prior to the end of the term or officially withdraw from the College must complete the Change of Schedule Form which may be obtained from the Advising Center. Failure to officially drop a course will result in a forfeiture of any refund and will result in a failing grade ("F") for all courses in which the student was enrolled.
HONORS PROGRAM GOALS

The primary goal of the Honors Program is to enrich the educational experience of academically talented, intellectually curious students.

The Honors Program achieves this goal through specialized courses and other learning opportunities which often include exploratory learning, interdisciplinary themes, collaborative activities, primary research, and hands-on projects.

The Honors Program also seeks to enhance opportunities for students to transfer to four-year colleges and universities and to provide special recognition for students with high academic achievement.

ELIGIBILITY

To be eligible for the Honors Program, a student must submit a recommendation from a teacher and meet one of the following criteria:

- A 3.25 GPA or higher, excluding developmental courses, with a minimum of 8 credits in college-level courses
- Appropriate score on RACC placement tests
- Graduation in the top 10% of high school class
- Successful completion (B average or higher) of accelerated high school courses (e.g., AP, honors, dual enrollment)
- A combined SAT score of 1100 or higher
- Recommendation of instructor (unless another criterion is fulfilled, admission would be for a single course)
- Special talent or ability in the area of a particular course (unless another criterion is fulfilled, admissions would be for a single course)

PROGRAM OPTIONS

- Taking Individual Honors Courses
  Students may enroll in one or more individual honors courses according to their personal, professional, or academic interests.

- Working Toward an Honors Certificate/Diploma
  Students who complete 15 honors credits with an overall GPA of 3.25 or higher and a 3.0 or higher in all honors courses will earn an Honors Certificate. When they graduate from RACC, these students will receive an Honors Diploma.

EARNING HONORS CREDIT

Students have three ways to earn honors credit:

- **Honors Courses**

  Students can enroll in honors courses. Some are honors versions of general education courses. Others are seminars, often interdisciplinary, on various topics.

  Currently available courses include the following:
  ANT 200 Interpersonal Communication
  ANT 250 Magic, Myth & Ritual: The Anthropology of Religion
  ANT 255 Interpreting Lives: Rites of Passage, Personal History, & the Life Cycle
  ANT 285 Ethnographic Research
  COM 122 English Composition
  COM 132 Composition and Literature: Texts & Contexts
  COM 152 Fundamentals of Speech
  ENV 131 The Environment
  HUM 276 Ethics
  HUM 280 Introduction to Navajo Studies
  HUM 281 Leadership Development Studies

  For additional information, see individual course descriptions.

- **Honors Contracts**

  Students can enroll in a standard RACC course and arrange with the instructor to complete additional or different work. Honors contracts are subject to the willingness of individual instructors to participate and to the approval of the appropriate division chairperson and the Honors Committee.

  A maximum of 8 contract hours may be applied toward an Honors Certificate or Honors Diploma.

- **Independent Study**

  A student can earn 1-4 honors credits for a project proposed and carried out under the direction of a faculty mentor. A project may involve in-depth research, creative works, internships, and/or three-dimensional projects. The time invested in an independent study project will be similar to the time required for a course of comparable credit.

  Independent Study is subject to the willingness of individual instructors to participate and to the approval of the appropriate division chairperson, the Honors Committee, and Vice President of Academic Affairs/Provost.

  A maximum of 6 independent study credits may be applied toward an Honors Certificate or Diploma.

  For additional information, contact the Honors Program Coordinator at 610-607-6216.
The College Assessment/Articulation Center has been established to help students who bring with them to Reading Area Community College a wide variety of experiences and college-level learning. Those students who wish to transfer credit from a non-classroom manner will find it beneficial to contact the Coordinator of Assessment/Articulation. The Coordinator will serve as an information source for the following areas:

1. **Credit by Examination**
   Institutional examinations for credit were designed for students who have previous experience that applies to a specific course. Students may be eligible to take a test to earn college credit for specific courses. Credit by Examination is considered resident credit. This option is available to students for the courses listed in the diagram:

2. **Portfolio Development for Life Experience Assessment**
   Any individual may request an assessment of college level learning gained from work experiences, travel, seminars, workshops, self-study, etc. through the development of a portfolio. Prior to compiling a portfolio, students should consult with the Coordinator of the College Assessment Center and enroll for "The Portfolio Preparation" seminar. Nursing courses may not be earned in this manner.

Assessment of Portfolios will be processed only for those students who have made proper application and been admitted to Reading Area Community College as degree candidates. After students determine the number of credits for which they desire assessment, they must pay the fee for Assessment of Experiential Learning. Life Experience Assessment via Portfolio Development is considered resident credit. The fee for this type of assessment is one credit hour per 3 credit course.

Students requesting assessment of only experiential learning experience for academic credit are not subject to payment of the Activity Fee or the Capital Outlay Fee.

### CREDIT BY EXAMINATION COURSES

| ACC 105 | Financial Accounting | MTT 280 | Computer Aided Manufacturing |
| ACC 110 | Managerial Accounting | NET 100 | Fundamentals of Networking |
| BUS 100 | Introduction to Business | NUR 120 | Nursing I |
| BUS 110 | Business Mathematics | NUR 130 | Nursing II |
| COM 121 | English Composition | NUR 140 | Nursing III |
| ECE 115 | Creative Art for the Developing Child | OFT 110 | Keyboarding I |
| ECE 120 | Observation & Interpretation of Child Behavior | OFT 111 | Keyboarding II |
| ECE 125 | Introduction to Early Childhood Education | OFT 100 | Personal Keyboarding |
| ECE 220 | Curriculum Development & Instruc. Mats. | PNP 110 | 100 |
| IFT 100 | Introduction to Information Technology | PNP 115 | 110 |
| IFT 110 | Microcomputer Applications | PNP 120 | 125 |
| MAT 110 | Algebra II | PNP 122 | 126 |
| MAT 150 | Foundations of Math | PNP 125 | 130 |
| MTT 120 | Machine Tool Mathematics I | PNP 130 | 140 |
| MTT 125 | Machine Tool Mathematics II | PNP 135 | 150 |
| MTT 130 | Blueprint Reading I | PNP 140 | 200 |
| MTT 135 | Blueprint Reading II | PNP 145 | 210 |
| MTT 140 | Blueprint Reading III | PNP 150 | 300 |
| MTT 150 | Machine Tool I | PNP 155 | 310 |
| MTT 155 | Machine Tool II | PNP 160 | 320 |
| MTT 160 | Machine Tool III | PNP 165 | 330 |
| MTT 210 | Machine Tool IV | PRG 100 | Introduction to Computer Programming |
| MTT 220 | Machine Tool V | PRG 120 | COBOL |
| MTT 260 | Computerized Milling Center | PRG 130 | RPG III |
| MTT 270 | Computerized Turning Center | PRG 140 | Visual Basic |
3. TRANSFER CREDIT AND EVALUATIONS

Students transferring from another college or university should follow the appropriate, previously described procedure for admission. For transfer purposes, Reading Area Community College may accept up to a maximum of 45 credit hours of coursework completed at another accredited institution of postsecondary education which offers the Associate or Baccalaureate Degree and is listed in the most recent edition of Accredited Institutions of Post-secondary Education as published by the American Council on Education. Reading Area Community College may accept work completed with a grade of "D" if the cumulative G.P.A. is a "C" average (2.0 on a 4.0 grading scale) at the transfer institution. However, be apprised that there are certain programs of study (Health Professions, etc.) where College policy precludes the acceptance of any course with a grade below a "C". Students should check with the appropriate academic division office concerning this policy.

Acceptability of transfer credit also depends upon the appropriateness of the course or courses to a given curriculum, the comparability of the course previously earned to the courses offered by Reading Area Community College, and the length of time which has elapsed since the course credits were earned. It is the responsibility of transfer students to present official transcripts and appropriate catalogs to assist in the proper evaluation of these credits. Transfer Credit is not resident credit.

When taking coursework at another college with a prior intent to transfer to Reading Area Community College, students are advised to submit a Transfer Course Approval Form.

4. REGENTS COLLEGE EXAMINATIONS

(formerly ACT-PEP)

Regents College Exams are administered at selected Sylvan Learning Centers.

5. CLEP (College-Level Examination Program).

CLEP tests are administered at Reading Area Community College. The College is considered an "open test center" which allows for a more flexible testing schedule. Students need only call the Office of Assessment to schedule a test. Students intending to transfer must contact the transfer institution to determine the acceptability of CLEP credits.

DSST/CLEP (Dantes Subject Standardized Tests) are similar in nature to CLEP tests. These tests were formally offered only to individuals involved with the various branches of the military. These tests have now been opened to the general public, and offer additional tests subjects. The College will offer DSST/CLEP tests in the "open test center" format. Students intending to transfer must contact the transfer institution to determine the acceptability of DSST/CLEP credits. Please call the Office of Assessment for additional information and to schedule a test.

6. MILITARY SERVICE TRAINING EVALUATIONS

Reading Area Community College will grant academic credit for military school service training as recommended in The Guide to the Evaluation of Educational Experiences in the Armed Services published by the American Council on Education. Credit may also be awarded based upon occupational specialty rating designation as recommended in The Guide. Military credit is not resident credit. Official military records must be requested and sent directly to the College for evaluation.

Proctoring Exams for Non Students

Individuals attending another institution enrolled in distance learning courses who need exams proctored may do so by contacting the Coordinator of Assessment/Articulation.

7. ADVANCED PLACEMENT STANDING

College Entrance Examination Board (CEEB) Advanced Placement Tests. These tests are specifically designed to stimulate secondary school students to high achievement and eliminate needless duplication of studies in college. The examinations, which are designed and graded by the College Entrance Examination Board (CEEB) in Princeton, New Jersey, are administered at high schools. The examinations are graded on a scale of 1 to 5. A score of 3 or higher is acceptable for credit. Our CEEB reference number is 2743. The Nursing and Practical Nursing programs have advanced placement policies.
### CLEP General Exams:

<table>
<thead>
<tr>
<th>Subject</th>
<th>RACC Awards Credit For</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>Not Accepted at RACC</td>
</tr>
<tr>
<td>English Composition (with essay)</td>
<td>Not Accepted at RACC</td>
</tr>
<tr>
<td>Humanities</td>
<td>HUM 293 Humanities Elective (3-6 credits)</td>
</tr>
<tr>
<td>College Math</td>
<td>MAT 030 Algebra I</td>
</tr>
<tr>
<td>Social Science/History</td>
<td>SOC 293/HIS 293 Social Science Elective (3-6 cr)</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>BIO 293/ENV 293 Science Elective (3-6 credits)</td>
</tr>
</tbody>
</table>

### CLEP Subject Exams:

<table>
<thead>
<tr>
<th>Subject</th>
<th>RACC Awards Credit For</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>Not Accepted at RACC</td>
</tr>
<tr>
<td>American Government</td>
<td>POS 130 American Government</td>
</tr>
<tr>
<td>American History I: To 1877</td>
<td>HIS 110 History of the U. S. I</td>
</tr>
<tr>
<td>American History II: To Present</td>
<td>HIS 115 History of the U. S. II</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>PSY 240 Educational Psychology</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>PSY 130 Genetic Psychology</td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>PSY 210 Child Psychology</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>BUS 200 Macroeconomics</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>BUS 201 Microeconomics</td>
</tr>
<tr>
<td>Western Civilization I: Ancient to 1648</td>
<td>HIS 120 Western Civilization: To 1600</td>
</tr>
<tr>
<td>Western Civilization II: to Present</td>
<td>HIS 125 Western Civilization: 1600-1945</td>
</tr>
<tr>
<td>College French - Levels I and II</td>
<td>LAN 293, 294 Foreign Language (3-6 credits)</td>
</tr>
<tr>
<td>College German - Levels I and II</td>
<td>GER 101 and/or GER 102 German (3-6 credits)</td>
</tr>
<tr>
<td>College Spanish - Levels I and II</td>
<td>SPA 101 and/or SPA 102 Spanish (3-6 credits)</td>
</tr>
<tr>
<td>American Literature</td>
<td>HUM 241 American Literature I</td>
</tr>
<tr>
<td>Analysis and Interpretation of Literature (No Essay)</td>
<td>HUM 293 Humanities Elective</td>
</tr>
<tr>
<td>English Literature</td>
<td>Not Accepted at RACC</td>
</tr>
<tr>
<td>Freshman College Composition</td>
<td>Not Accepted at RACC</td>
</tr>
<tr>
<td>Calculus</td>
<td>MAT 220 Calculus I</td>
</tr>
<tr>
<td>College Algebra</td>
<td>MAT 160 College Algebra</td>
</tr>
<tr>
<td>Biology</td>
<td>BIO 293 Science Elective (3-4 credits)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHE 293 Science Elective (3-4 credits)</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>MGT 100 Principles of Management</td>
</tr>
<tr>
<td>Principles of Accounting</td>
<td>ACC 105 Financial Accounting</td>
</tr>
<tr>
<td>Introductory Business Law</td>
<td>BUS 230 Business Law</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>BUS 220 Principles of Marketing</td>
</tr>
<tr>
<td>Pre-Calculus</td>
<td>MAT 180 Pre-Calculus</td>
</tr>
</tbody>
</table>

*CLEP credit is not considered resident credit.*

*Reading Area Community College students are not eligible for any optional essay exams. Please contact the Coordinator of Assessment with any questions in this regard.*
ADVISING CENTER
The Advising Center provides academic advising services for RACC students. It is located on the first floor of Berks Hall. Important services offered included:

- Placement Testing
- New Student Advising Seminars
- Advising for ESL students
- Advising for Probation students
- Advising for Undecided students

NOTE: All other students are to see their assigned academic advisor. Use WebAdvisor or stop into the Advising Center to identify your assigned academic advisor. Students are strongly encouraged to meet with their assigned academic advisor on a regular basis.

CENTER FOR ACADEMIC SUCCESS
The Center for Academic Success (CAS) offers a wide range of services which help students succeed at Reading Area Community College. This center is located on the second floor of Berks Hall.

The College provides a staff of professional counselors who are available to assist students with personal and social matters as well as career, transfer and educational planning. In helping students, counselors may use standardized tests and inventories, educational and vocational materials, and financial aid information. The counseling staff follows the ethical standards of the American Association for Counseling and Development.

The following services are offered through the Center for Academic Success.

TRANSFER CENTER SERVICES
- Course equivalences with various colleges including Alvernia, Albright, Millersville, Kutztown and Penn State.
- College catalogs from colleges in Pennsylvania and some from across the country.
- Resources to help you find the college that suits your needs.
- Literature and applications from colleges across Pennsylvania.
- Transfer counselor available to answer all your questions.
- Free materials to help with your search.
- Information about specific courses, curriculum and their transferability to area colleges.

CAREER CENTER SERVICES
The mission of the Career Center is to provide students and alumni the opportunity to identify their career goals, establish ways in which these goals can be achieved, and connect with community employers and organizations that can help in the transition of students from college to the world of work. To facilitate this mission, the Career Center offers the following services:

- CAREER EXPLORATION - Career counseling is available for RACC students and alumni.
- DISCOVER - A computerized career exploration program is available for students who are undecided about career choice.
- WORKSHOPS - The Career Center offers a number of programs and workshops to assist students in identifying career goals and developing job search strategies.
- JOB OPENINGS - Employment information is posted on the Career Center bulletin board.
- RESUME CRITIQUE SERVICE - Students and alumni are encouraged to make appointments to have their resume evaluated.
- ON CAMPUS RECRUITING - Employers are invited to visit RACC and interview students.
- CAREER LIBRARY - Labor market data, job descriptions, internship information, and other career exploration and job hunting resources are available.
- CAREER DEVELOPMENT COURSES - A course on Career Decision Making, Resume Writing and Interviewing, and Professionalism on the Job are taught throughout the year.
- COOPERATIVE EDUCATION - The program is a partnership between the college and the employer that provides RACC students with the opportunity to apply the knowledge they have gained in the classroom to the reality of the workplace.

COOPERATIVE EDUCATION
Cooperative Education is an academic program designed to provide students with actual, valuable, and practical work experience in a supervised learning situation with a participating employer. The primary objective of Co-op is to bridge the gap between theory and practice by allowing the students to apply skills learned on campus to practical on-the-job learning situations and earn college credits in the process. The Co-op Program is required in some courses of study and is optional in any curriculum area except for Health Professions majors. It is generally up to the individual students, with the cooperation and
advisement of their Faculty Advisor, to determine if Co-op will enhance the particular academic program. Students enrolled in Co-op will gain valuable experience not only in the actual job functions, but also in the introduction to the world of work. The qualifications for participation in the Co-op Program are as follows:

a. Students should have a clearly stated career goal related to the potential work experience, be enrolled in a degree program in the curriculum under which the Co-op work experience falls, or be in a position to benefit from a career exploration work experience.

b. Students must have 27 credit hours of coursework or the equivalent of three full terms of college work in their curriculum and a 2.0 grade point average before entrance into the program. Eligibility and prerequisites may differ by Division and it is the responsibility of students to meet the requirements.

c. Students must have secured a job site with an approved Co-op employer before enrollment into the program. In any case, students must receive approval in writing from the Division Chair before registering for Co-op credits. A required component of the Cooperative Education Program is concurrent enrollment in CAR 105 Professionalism on the Job, a one-credit hour course.

Credits earned in an approved Cooperative Education Program may be substituted for up to three credit hours of coursework in the total curriculum. Specific course substitution must be approved by the Faculty Advisor. Co-op is considered resident credit.

For specific information regarding the Cooperative Education program, contact the Director of the Center for Academic Success at Reading Area Community College.

TUTORING SERVICES
Free tutoring is provided for most basic skills and freshman (100) level courses. In the tutorial center, tutors are available during posted hours to assist students on a walk-in basis in reading, writing, math, science, etc. and to facilitate study groups. Individual tutoring is available on a limited basis to those students assessed as requiring intensive assistance.

The ACT 101 EMPHASIS Program - The ACT 101 EMPHASIS Program provides supportive services for students who have good potential to succeed in college but who need to overcome academic and financial barriers. The EMPHASIS Program is funded by the Department of Education through ACT 101, the Pennsylvania Higher Educational Opportunity Act of 1971. Students participating in EMPHASIS receive pre-college preparation, tutorial services, and personal, academic, and career counseling. Other services are study skills workshops, support groups, and cultural/social activities. The EMPHASIS office is located on the second floor of Berks Hall.

Advantage Program/Student Support Services Program - Intensive assistance in college skills development is available through Support Services. Funded by the federal government, this project expands college access by providing basic skills instruction, tutoring and supportive counseling.

Carl Perkins Program - Federally funded, the Carl Perkins Grant provides academic support and career guidance services to underprepared students who are pursuing degrees at Reading Area Community College. Students enrolled in college programs are eligible for these services which include tutoring, academic advisement and career guidance.

English as a Second Language - This program introduces students to the concepts needed to develop strong writing skills in the English language. Counselors also assist students with personal, career and academic issues.

Services for Students with Disabilities - The Center for Academic Success at Reading Area Community College coordinates services for students with disabilities. The primary objective is to provide academic accommodations for students who qualify for services under the guidelines of the Americans with Disabilities Act and Section 504 of the 1973 Rehabilitation Act.

Assistive Technology - RACC has acquired assistive technology for use by students with disabilities. There is also a staff person available to train students to use the technology to support student success.

PROCEDURES FOR ACCESSING DISABILITY SERVICES
Students have the responsibility to self-identify as a student with a disability. Students should call 610.607.6245 to schedule an appointment with the disability staff to provide adequate disability documentation.

The need for interpreter services should be requested in a reasonable amount of time prior to meeting with disability staff.

Documentation Guidelines:
• A qualified professional must provide documentation.
• Documentation and requests for accommodation must be current (within the last three years), complete and demonstrate need.
• Decisions regarding requested accommodations are a result of collaboration between the student and the disability staff person.
OVERVIEW

It is the basic belief of all financial aid programs that the primary responsibility for meeting college costs lies with the student. If a student and his or her family cannot meet the full cost of education, the Financial Aid Office, through available financial aid programs, helps students and their parents meet the cost of their education.

These funds can come from a variety of sources such as the federal government, the state government, private sources and from the school itself. Financial aid may be awarded in the form of a grant or scholarship - money which does not have to be repaid; a loan - money which must be repaid; or employment - where a student works to earn money for school. The type of aid you receive will be based upon your “need” as determined by the federal methodology. All aid can be accepted or declined by the student; but, in some cases, if declined, it will not be replaced by other sources of funding. Approximately 40% of all students at RACC currently receive financial aid.

HOW TO APPLY

Students must apply for aid each academic year. The Free Application for Federal Student Aid is available after January 1st for the next academic year. This application can be received by calling the Admissions Office or by stopping in the Financial Aid Office. Students who received aid for the prior year should receive a renewal application in the mail.

Steps To Apply:
1. File the FAFSA. Complete as much of the form as possible. Bring to the Financial Aid Office to be reviewed for errors and completeness.
2. Complete the RACC Financial Aid Application form and return to the Financial Aid Office.
3. If applying for a student loan, obtain a Stafford Loan application from your bank. Complete and mail to the address indicated on the application.
4. If you are a transfer student - request a financial aid transcript from your previous schools.

Although financial aid applications are accepted at any time during the year, students should attempt to submit their application before May 1 to ensure consideration for all possible financial aid programs.

ELIGIBILITY REQUIREMENTS

Currently enrolled and prospective students interested in applying for aid must:
1. Be a U.S. citizen; permanent resident; or eligible non-citizen.
2. Be enrolled or intending to enroll on at least a half-time basis for most programs.

NOTE: The PELL Grant may be available to students enrolled less than half-time.
3. Be enrolled in a program of study leading to a degree or eligible certificate offered by Reading Area Community College.

NOTE: Auditing classes and non-credit classes are not paid for by financial aid.
4. Be in “satisfactory academic standing” according to the College’s academic probation policy.
5. Be maintaining "satisfactory academic progress" according to the College's Title IV Student Financial Assistance Satisfactory Academic Progress Policy published in the Financial Aid Handbook.
6. Not be in default on any Stafford, Perkins, HEAL or loans, and not owe a refund on any PELL, SEOG, or SSIG received at RACC or any previously attended school.
7. Be a High School graduate, have received a G.E.D. or show ability to benefit as determined by the placement tests.

VETERANS SERVICES

The Financial Aid Office acts as a liaison between our students who are veterans of the armed services and the Veterans Administration Office. Counseling and assistance are provided to veterans who need help in securing benefits under several different veterans educational programs. Reservists should bring their Notice of Basic Eligibility (DD2384) to the Financial Aid Office. All other veterans should bring their Report of Separation (DD214). All paperwork is processed through the Financial Aid Office.

TYPES OF FINANCIAL AID

FEDERAL AID

Federal Pell Grant – awards range from $400 to $4310 per academic year. Student may be enrolled less than half-time depending upon eligibility. Please consult the Financial Aid Office for information about deadlines.

Federal Supplemental Educational Opportunity Grant (SEOG) – awards are generally $100 to $300 per academic year. Student must maintain half-time status. Filing deadline is July 1 of each academic year.

Federal Work-Study Program (FWSP) – Student may work at designated sites on-campus during the academic year. Maximum amount that can be earned is $800 per academic year. Student must be enrolled at least half-time without exceeding unmet need.
**Federal Stafford Loan** – Requires a student loan application which can be requested from most banks and credit unions. Total loan amount can be from $500 to $3500 or $7500 if including subsidized loan. Students must maintain half-time enrollment. Although there is no filing deadline for the student loan, it does take approximately 90 days for the loan to be processed and therefore early application is recommended.

There are two types of Federal Stafford Loans:

*Subsidized Loan* – The interest on the loan is paid for by the federal government while you are in school. The student makes no interest or principle payments until 6 months after graduation or dropping below half-time status.

*Unsubsidized Loan* – Student must pay the quarterly interest payments while in school. Principle payments are still deferred until 6 months after graduation or dropping below half-time.

**STATE FINANCIAL AID**

*Pennsylvania Higher Education Assistance Agency (PHEAA) Grant* – Grants range from $100 to $2000 or a maximum of 80% of tuition. Student must maintain half-time status. The filing deadline for first time applicants in a two year career program is August 1 of each academic year and May 1 for Associate of Arts majors.

*State Work-Study Program* – The student must be a Pennsylvania resident and work in a job relating to their major.

**SCHOLARSHIPS**

*Foundation for Reading Area Community College* – The Foundation for Reading Area Community College is an independent 501(c)(3) corporation established in 1981 to provide financial support for Reading Area Community College’s programs and educational needs. The Board of Directors of the Foundation is comprised of 30 business and community leaders who represent the Foundation in the community and assist in the solicitation of funds. Support to the college is provided primarily for student scholarships, library materials, classroom equipment and cultural events.

Since its incorporation in 1981, the Foundation has developed over 65 donor designated endowed scholarship funds. Over 200 awards are made annually to students in the form of scholarships or awards. For consideration of these scholarships and awards, students need to follow two easy steps. Each and every year, a Free Application for Federal Student Aid needs to be completed. Even if students don’t qualify for grants, this step is necessary to qualify for our “scholarship pool” of applicants. In addition, any scholarships requiring applications are available on [www.racc.edu](http://www.racc.edu). Students should check this often as deadlines vary throughout the year. A scholarship guide that lists all scholarships offered to RACC students is also available on this site.

**ENDOWED FUNDS OF THE FOUNDATION**

Donors may establish an endowment in memory of a loved one or to honor a favorite faculty or family member. The Foundation staff works with donors to maximize charitable deduction benefits while establishing endowments that will fund scholarships and programs to help RACC meet its mission. Funds are disbursed according to criteria created by the donor at the time an endowment is established.

For further information, please contact us

The Foundation for Reading Area Community College
Berks Hall – Room 309
610-607-6239
Foundation@racc.edu.
BOOKSTORE
Students may purchase textbooks, other required reading materials, and classroom supplies from the Bookstore. The "Book RACC" has items for sale such as Reading Area Community College jackets, shirts, sweatshirts, and other sundries.

STUDENT PARKING SERVICES
Parking permits must be obtained within the first two weeks of the term in the lobby of Penn Hall. Students may park on Lot A (South of Franklin Street), Lot B (Orange Care Lot), or in the Parking Garage. Students requiring handicapped parking will find spaces on all lots as well as along Front Street in front of Penn Hall. If you plan to park in the Parking Garage, you must use your Student Identification Card (ID) to gain access to the garage.

EDUCATION LABORATORY CENTER
The Reading Area Community College Education Laboratory Center serves as a laboratory setting for Reading Area Community College's Early Childhood students and as a child care center for children of Reading Area Community College students. The Center is licensed by the Department of Public Welfare. All teachers are certified.

The hours of the ELC are Monday through Friday from 7:00 a.m. to 6:00 pm. Evening care from Monday through Thursday from 6:00 p.m. to 8 p.m. (5 or more children must be registered for evening care to run). Hours are subject to change during term break and during the summer.

All children must be registered for a regular schedule each term. In addition to hourly rates, a registration fee is charged each term. Space is limited in the morning; therefore, students may wish to consider arranging their classes after 1:00 p.m. Temporary drop-in care may also be available for children of RACC students. Students must call the ELC to determine if space is available for drop-in care.

Information may be obtained by contacting the Coordinator of the Education Laboratory Center.

STUDENT ACTIVITIES

Student Government Association
The Student Government Association (SGA) is the voice of the student body at Reading Area Community College. Composed of elected freshmen and sophomore senators, S.G.A. provides a wide variety of social activities for Reading Area Community College students and their families. The Student Government Association functions under its own Constitution and the Student Bill of Rights and Responsibilities. All students may participate in college council through SGA.

Clubs and Organizations
Reading Area Community College student clubs are based upon student interest and may vary from year to year. Typical clubs include the Student Newspaper, the Respiratory Care, and International Student Club. Any group of students with a common interest may petition for official sanction as a club. Procedural information may be obtained from the Coordinator of Student Activities.

The Phi Theta Kappa International Honor Society
Phi Theta Kappa, the honor society for two-year colleges, was founded in 1918. In addition to recognizing scholastic achievement, Phi Theta Kappa also provides members opportunities for Scholarship, Leadership, Service, and Fellowship.

The RACC chapter was chartered in 1990. Students are invited to join when they have completed at least 12 credits of associate degree coursework at RACC with a Grade Point Average of 3.60 or higher. Membership benefits include scholarship opportunities, gold stoles and tassels for graduation, and Phi Theta Kappa recognition on diplomas and transcripts.

Athletics and Intercollegiate Sports
Reading Area Community College is a member of the Eastern Pennsylvania Collegiate Conference. The College fields teams in Men’s Soccer, Women’s Volleyball, and Men’s Basketball. Intramural athletic events requested by the student body are arranged throughout the year by the Athletic Department.

Health Services
Students who become ill or need emergency treatment will be directed to one of the local hospitals in Reading for care and treatment. The College assumes no responsibility for the medical treatment of students or for costs incurred for transportation to emergency services or for treatment rendered.

Student Housing
The College does not approve, rate, or provide any resident housing facilities. All arrangements for living quarters are the responsibility of the students.

Alumni Association
All students who have graduated from Reading Area Community College automatically become members of the Alumni Association. The Association is governed by a council who plans special activities and publishes a newsletter three times each year. For more information contact the Office of Alumni Affairs.
Yocum Library

The Yocum Library, which opened in 1996, includes the library collection of approximately 50,000 items, which is housed on the 2nd through 4th floors of The Yocum Library Building on South Front Street. The circulation desk and reference collection are on the 2nd floor of The Yocum Library. The general collection is on the 2nd and 3rd floors; it includes books, video recordings (VHS and DVD), sound recordings, and other media which primarily are chosen to support the College’s curricula. The special collections include children’s books, juvenile books, paperback books, maps, art prints, the College archives, the Wes Fisher Music Score Collection, the Schuylkill Navigation System Map Collection, a research comic book collection, and the faculty reserve collection. The periodical collection consists of over 200 print magazines, journals, trade publications, and newspapers to which the library subscribes as well as thousands of periodicals accessible through subscription-based databases available via the Internet using the library’s passwords.

The library publishes many guides to help the library users access library resources and services. These guides are available in print in the library as well as on the library’s web site. The library provides customized instruction for RACC classes and also offers library research courses. Check the library web site "Instruction" section for more information.

The Yocum Library is part of the Berks County Advanced Library Information Network (ALIN) System, which links a number of libraries together, including Reading Public Library and Alvernia College. Because the libraries in the ALIN System share the same online catalog and circulation files, their patrons can easily locate and borrow items from any of the libraries in the ALIN System. RACC students have access to over a half million items in the county-wide ALIN collection as well as the online databases of Reading Public Library through the ALIN library card. You can access the ALIN catalog as well as the collection of online databases from your home via the Internet at www.racc.edu/library.

If your information needs cannot be met through The Yocum Library or ALIN collections, the library staff has access to library union catalogs such as Access PA and OCLC. Using these databases the library staff can identify holdings in other libraries and can obtain needed items by Interlibrary Loan. Ask the Reference Librarian or Head of Interlibrary Loan about this service.

Other services available in the library include assistive technology (text readers, a print text enlarger, a TDD/TTY telephone line, and software), group study rooms, and the Testing Center for College@Home and make-up tests. Ask at the Circulation Desk about access to these services.

Cultural programs that the library offers include a Shakespeare Film Festival as well as First Friday Films discussion group. The library also publishes The Yocum Library Column, a newsletter offering articles about library events and resources as well as reviews of books, films, and Internet web sites.

Web-Enhanced Courses

Web-enhanced courses use materials on a webpage or pages to supplement classroom instruction. It is not an online course. The student is expected to attend all scheduled class days and times. The College support faculty use of WebCT as a course management system for these courses. Students may be required to access course materials via the Internet. Specific instructions will be provided by the instructor of a web-enhanced course.
College@Home courses are designed for busy people who want to begin or continue their college education. College@Home courses are no easier than courses on campus, but they are more convenient. Students can take a College@Home course in their own home at times that fit their busy schedule. Thousands of students have found televised courses for credit to be not only a time and cost efficient way to go to college, but also an exciting way to get a college education. Television is a proven educational medium with unlimited dimensions. It takes students to places around the world and to events from the past, present and future, guided by experienced Reading Area Community College faculty.

Content Excellence

Reading Area Community College’s College@Home courses do not merely consist of RACC faculty, or those of another college lecturing before a camera (the proverbial "talking-head"). These courses were professionally developed employing a core team of nationally recognized subject specialists, professional actors and actresses as well as experts in the field who serve as guest speakers. Each treatment of subject, each script, each study guide unit and textbook chapter are examined and field tested for accuracy and relationships to the whole as well as appropriate use of each medium.

Some College@Home courses have received nominations for, or have won, the prestigious Emmy Award from the Academy of Television Arts and Sciences.

Are College@Home Courses Easier?

No. College@Home courses cover the same material and require just as many hours of work as the same courses taught in a classroom. Moreover, College@Home courses require independent study. Independent study requires self discipline and motivation.

Successful students are those who follow the study guide or the course outline carefully and who do the reading assignments on a regular basis. College@Home courses require good reading skills; they cannot be completed successfully by only watching television. Consult your advisor as to the reading level of the text for the College@Home course which interest you.

How Does a College@Home Course Work?

A College@Home course consists of four components: a series of television programs (usually three different half-hour programs per week), a textbook, a study guide, and a Reading Area Community College faculty member (a facilitator). These all work together in the learning experience.

When students enroll in a College@Home course, they receive detailed course information, a broadcast lesson schedule and an examination schedule. Students meet with their Reading Area Community College facilitator at an on-campus orientation session. The facilitator holds regular office hours and is available by phone, email, or through a personal visit to the College. Throughout each College@Home course, several optional review sessions are held on campus.

What Are The Broadcast Times For A College@Home Course?

College@Home courses are broadcast on Comcast Channel 22 and Hamburg Cable Channel 17 at a wide variety of times of day, both during the week and weekends. If the broadcast schedule is not convenient, or you do not have Berks Cable, or even a television, the entire course can be viewed in Reading Area Community College’s Yocum Library. Many students videotape the College@Home courses and view them at their own convenience. A full set of tapes for each course is also available for rental. The rental fee is a $75 deposit with a return of $60 when the tapes are returned to the College. No refund is given for late returns.

College@Home Courses Currently Available

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 100</td>
<td>Personal Finance</td>
</tr>
<tr>
<td>BIO 120</td>
<td>Biological Concepts</td>
</tr>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>BUS 200</td>
<td>Macroeconomics</td>
</tr>
<tr>
<td>BUS 201</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>BUS 220</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
</tr>
<tr>
<td>COM 131</td>
<td>Composition &amp; Literature</td>
</tr>
<tr>
<td>ECE 125</td>
<td>Introduction to Early Childhood Education</td>
</tr>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
</tr>
<tr>
<td>HEA 110</td>
<td>Health</td>
</tr>
<tr>
<td>HIS 135</td>
<td>America’s Civil Rights Movement</td>
</tr>
<tr>
<td>HUM 261</td>
<td>History of Film</td>
</tr>
<tr>
<td>HUM 201</td>
<td>Art Appreciation</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
</tr>
<tr>
<td>MAT 030</td>
<td>Algebra I</td>
</tr>
<tr>
<td>MAT 110</td>
<td>Algebra II</td>
</tr>
<tr>
<td>MAT 160</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MGT 100</td>
<td>Principles of Management</td>
</tr>
<tr>
<td>PSY 130</td>
<td>General Psychology</td>
</tr>
<tr>
<td>PSY 210</td>
<td>Child Psychology</td>
</tr>
<tr>
<td>PSY 250</td>
<td>Abnormal Psychology</td>
</tr>
<tr>
<td>SOC 130</td>
<td>Sociology</td>
</tr>
<tr>
<td>SOC 220</td>
<td>The Family</td>
</tr>
</tbody>
</table>

Courses are also updated regularly by the provider to reflect new insights or discoveries about the subject.
COURSE SELECTION
All new students plan their first term of study in consultation with an advisor. Subsequently, students are assigned to Academic Advisors who assist them with course selection. Every effort is made to assign students to academic personnel who have experience and expertise in their programs of study. Students are urged to meet with their advisors regularly. Although the College provides assistance in course selection, it is the responsibility of the students to keep abreast of any and all academic regulations that affect them through contact with an advisor.

COURSE REPEAT POLICY
A student may register to take a course for a third time only with the permission of the chair of the division in which the course is offered.

REGISTRATION
Students will be notified when registration is to begin for each term. Students may register for courses online using WebAdvisor, or may register in person. Students must meet with their Academic Advisor prior to registering for courses. Information about your Academic Advisor can be found on WebAdvisor, or may be obtained in the Advising Center.

CROSS REGISTRATION
Reading Area Community College students have the opportunity to take classes at neighboring Berks County colleges and universities. Full-time RACC students are entitled to enroll in one course each semester (excluding summer sessions) at Albright, Alvernia, Kutztown or Penn State Berks, and only pay the RACC tuition rate. Cross-registration allows RACC students to:

- explore other classes and subjects that RACC does not offer.
- try out a school they are considering for transfer
- take a 300 or 400 level course in your future bachelor's degree program

Interested students should stop in the Transfer Center, Berks Hall.

CLASS ATTENDANCE POLICIES
The College expects all students to attend classes regularly. Specific attendance policies for any course are determined by each instructor. Students must complete all assignments, examinations, and other requirements in all of their courses. Absence does not constitute exemption from such obligations, and it is the responsibility of the students to take the initiative in making up any work missed. Excessive absence may be cause for dismissal from a course or the College.

FACULTY INITIATED WITHDRAWALS
An instructor of credit courses may initiate a faculty withdrawal of any registered students in their class during the first 60% of the course (before the end of the “W” period) providing any one of the following conditions are met:

1. The student missed more than 10%, one week in a ten week term, of the class sessions. For a traditional MWF class, the initiated withdrawal could not occur until after the fourth miss.
2. The student missed the first week of class.

A student withdrawn has the right to appeal this decision and may continue to go to class until a decision to the appeal is rendered.

FULL-TIME STUDY
The normal academic load is nine or ten credit hours per ten-week term. To be classified as full-time, students must carry a minimum of eight credit hours per term. Students carrying more than thirteen (13) credit hours per term must have the approval of their academic advisors and the Vice President of Academic Affairs/Provost, unless specified in the degree program.

ACADEMIC LOAD FOR VETERANS
It is important for veterans to know that Veterans Administration regulations specify a minimum of eight credit hours to qualify for full-time benefits. It is the responsibility of students who are veterans to comply with all VA regulations if they are to receive full-time benefits. For further information, veterans are advised to contact the Financial Aid Office.

FRESHMEN & SOPHOMORE CLASSIFICATION
Regularly enrolled students who have completed less than 30 credit hours at the College, or at another institution, are considered freshmen. Students who have completed 30 or more credit hours are designated sophomores.

DISMISSAL
Students who do not maintain a 2.0 (“C”) grade point average may be dismissed. No students will be dismissed at the end of any term in which they earned a grade point average (G.P.A.) of 2.0 or better. Refer also to the section which discusses the grading system for more information. Students who are dismissed because of a low G.P.A. cannot return until they appeal to the Academic Affairs Committee for readmission. The Committee will decide whether or not students are to be readmitted and, if readmitted, under what conditions and limitations they will be placed. Students enrolled in selective programs may be required to maintain a higher G.P.A.

ACADEMIC RESTART
Students are eligible for Academic Restart if they have not been enrolled at RACC for two or more consecutive years and if they have an unsuccessful academic record during their previous enrollment. For more details, check with Center for Academic Success.
PROGRAM CHANGE

Students should make every effort to plan their program of study so that their course selection is in concert with career or educational goals. However, students may change their program of study if it becomes apparent that their abilities and interests are better suited to another curriculum.

A decision to change curriculums should be made by students only after they have discussed the matter thoroughly with their advisor. Students should go to the Advising Center for a Change of Curriculum form. The new curriculum becomes effective immediately upon receipt and processing of the Change of Curriculum form. (Students changing their curriculum to one in the Health Professions must additionally complete a special application in the Admissions Office.)

A student who is readmitted and/or officially changes his/her program area of study is required to follow the catalog in effect at the time of his/her readmission and/or change of academic program.

CHANGE OF SCHEDULE

Adjustments to schedule can be made using WebAdvisor or by completing the change of roster form available in the Advising Center or Records Office. There are specific periods of time each term for adding, dropping and withdrawing from courses. Information about these dates is available from the Records Office or the Advising Center.

Students who find it necessary to stop attending courses must formally withdraw.

All schedule changes become official when they are processed by the Records Office.

AUDITING

Students may choose to audit a course. This means that the students may attend the course for no grade, and all required work is waived. No credit is given for an audit. Students who audit a course must register for the class in the same manner and at the same time prescribed for regular classes. They must also pay required tuition and fees as if they were registering for credit in the course. Within the add period, students are allowed to change their status in a course from credit to audit, or from audit to credit.

FINAL GRADES

Students will receive final grades via the web (www.racc.edu). Grade information will not be released by telephone. Only the faculty member who has taught a student in a course can change a grade. Students who are taught by a team of teachers may only have their grades changed when there is complete unanimity. After one year, no course grade can be changed without the written permission of the Vice President of Academic Affairs/Provost.

ACADEMIC HONORS

Term Honors

The College recognizes scholastic achievement of regularly enrolled degree students by publishing the President’s List and the Dean’s List at the end of each regular term.

The President’s List includes the names of students who have earned eight or more credit hours and who have a term grade point average of 4.0.

The Dean’s List includes the names of students who have earned eight or more credit hours and who have a term grade point average of 3.5 to 3.99.

The words “President’s List” and “Dean’s List” will appear on the student’s transcripts to clearly indicate the student’s academic status.

Graduation Honors

The College recognizes an Academic Honors Group at graduation. The Academic Honors List includes the names of graduates who have earned 30 hours or more of their coursework at Reading Area Community College and earned a cumulative grade point average of 3.50 or better.

Honor students will be recognized as follows:

- Cum Laude 3.50 - 3.74 (bronze honor cord)
- Magna Cum Laude 3.75 - 3.94 (silver honor cord)
- Summa Cum Laude 3.95 - 4.00 (gold honor cord)

TRANSCRIPTS

Transcripts may be obtained from the Records Office. Student transcripts are confidential and protected by the Family Education Rights and Privacy Act of 1974. Therefore, no transcripts or grades shall be released through a telephone call. If students wish to request a transcript of their academic work, they should contact the Records Office in person or send a
s. Theft or attempted theft of College or individually owned property.

l. Intoxication due to alcohol, narcotics, etc., on College-owned or operated property.

k. Disruptive physical behavior and/or verbal interference.

j. Failure by a student on campus to identify himself/herself and/or provide valid identification when requested by an authorized College official or security officer.

i. Illegal/unauthorized possession, or use of firearms, fireworks, knives, explosives, weapons, or any item which has been modified or adapted so that it can be used as a weapon.

h. Tampering with fire alarms or firefighting equipment on campus, including issuing false alarms of any nature.

g. Illegal/unauthorized possession, or use of fireworks, firearms, knives, explosives, weapons, or any item which has been modified or adapted so that it can be used as a weapon.

f. Theft or attempted theft of College or individually owned property.

e. Illegal/unauthorized use, possession, sale, or exchange of narcotics or drugs on campus.

d. Assault and battery upon another person while on College-owned or controlled property.

c. Possession, use, sale, or exchange of alcoholic beverages on College property or at College-sponsored functions.

b. ForgerY, falsification, and/or unauthorized use of an official College document or College identification card.

a. Failure to comply with the College’s policy on academic honesty.

MAJOR VIOLATIONS OF COLLEGE REGULATIONS*
The following student actions shall be regarded as violations of the College regulations, policies, or procedures, with a possible maximum penalty of expulsion:

m. Participation in or organization of any unauthorized activities on College-owned or controlled property.

n. Unauthorized entry to or use of College facilities, including buildings and grounds.

o. Violations of rules or policies regarding privileges extended to RACC students by other schools/colleges through formal agreements.

p. Harassment, which includes but is not limited to sexual/sexual harassment, of any student, employee, organization, or officer of the College or any individual or organization visiting or passing through the College campus.

q. Utterance of false testimony or submission of false written statements at any proceeding authorized by this document.

r. Commission of any act that would be considered a felony or misdemeanor, or any act which results in a citation being issued or an arrest being made while on College owned or operated property or while attending or travelling to/from an officially sponsored function.

s. Persistent infraction of College regulations, policies, or procedures intended for the safety of buildings and/or personnel (i.e. smoking in prohibited areas.)

*Taken from Student Bill of Rights and Responsibilities.

STATEMENT OF ACADEMIC HONESTY
The principles of truth and honesty are expected to be followed in all academic endeavors. Academic dishonesty in any form will not be tolerated. A procedure has been developed to prevent occurrences of academic dishonesty and to guide faculty and students should they become involved in such incidents. This procedure is fully described in the Student Handbook. A copy of the Academic Honesty Policy is available from The Student Government Association or The Vice President for Enrollment Management/Student Services. A copy of the Bill of Rights and Responsibilities for Electronic Learners is available from the Vice President for Enrollment Management/Student Services or the Student Handbook.

23
The grading system is based on a 4.0 grade point Scale. The letter grade and value assigned is indicative of the caliber of academic work achieved by students.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Definition</th>
<th>grade points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent Performance</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td></td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>Above Average Performance</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>Average Performance</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>2.0</td>
</tr>
</tbody>
</table>

**CAUTION**

Below Average – May Not Transfer; May Count Toward Graduation

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Definition</th>
<th>grade points</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-</td>
<td>Below Average Performance</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>Minimal Performance</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>Failing Performance (1986-Present)</td>
<td>0.0</td>
</tr>
<tr>
<td>R</td>
<td>Failing Performance (1979-1986)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**Letter Indicator Definition**

- **I** Incomplete. Only given with permission of the faculty member when extenuating circumstances prevent students from completing the course work during the regular college session. This work must be completed within 30 days after grades are due; otherwise, the Incomplete automatically becomes an "F" unless a time extension is granted under extenuating circumstances.

- **SE** Course in session. This Letter Indicator appears on all official transcripts if processed while courses in which students are enrolled have not concluded.

- **T** Transfer credits from another institution.

- **W** Withdrawal. If the Withdrawal is completed by the end of the sixth week of a ten-week term or the equivalent percentage (see College Calendar), this Letter Indicator will appear on the permanent records. If students withdraw after the end of the stated time period, a Letter Grade of "F" will appear on the permanent records. However, in the case of extenuating circumstances that are documented and approved by the faculty member of the course (or Division Chair if the faculty member is unavailable, or the Vice President of Academic Affairs if neither are available), a Letter Indicator of "W" may be granted.

- **X** Recognition of credits for: CLEP, Credit by Examination, Assessment of Experiential Learning, or for a course audit. No final Letter Grade is issued to students who elect to audit credit courses; therefore, it is not used in computing the grade point average. (1991-1992)


- **CA** Recognition of credits for: Credit by Articulation (1993-Present).

- **IE** Recognition of credits for: Credit by Exam (In-house Exam) (1993-Present).

- **EC** Recognition of credits for: External Credit (1993-Present).

- **ME** Recognition of credits for: Military Experience (or classes) (1993-Present).

- **PA** Recognition of credits for: Portfolio Assessment (1993-Present).

**Credits Calculated** - The total credits from courses whose grades are used in the calculation of grade point averages. Does not include repeated courses or Letter Indicators. The G.P.A. is based on credits calculated. A low G.P.A. may result in probation or dismissal.

**Credits Earned** - The total credits from all credit courses with a letter grade above an "F". These are the credits that count toward graduation and fulfillment of degree requirements.

**Calculation of grade point average** - The number of grade points earned divided by the number of credits calculated. The number of grade points obtained by students in courses shall be computed by multiplying the credit weight by the grade point equivalent.

* Students may repeat courses in which they received a grade below "C". This includes the Letter Grades: "C-", "D+", "D" "F", "R". When courses are repeated, the earlier grades remain on the permanent records; but only the last enrollment grades are used in the computation of the cumulative G.P.A. The repeat must be with courses at the College; it may not be by study at another institution.

N.B. The Veterans Administration views a Withdrawal ("W") as an audited course and, as a result, receipt of the "W" could reduce V.A. benefits. Eligibility for some other financial aid programs may be affected when students choose this course adjustment option. Please see a Financial Aid Officer for clarification.
STUDENT INITIATED REQUEST
FOR REVIEW OF GRADE(S)

A student request for the review of grades (including final grades) must be initiated by the last day of classes for the term immediately following the term in which the grade was given. A request for review for Spring Term grades must be made by the end of the Fall Term, not the summer. It is incumbent upon the student to produce documents for the hearing(s) on the request for a review. The review process is as follows:

1. The student first requests the grade review to the instructor in the course.
2. If not satisfied with the decision of the instructor, the student has the right to make a request for a review to the Division Chair of the Division in which the course is offered.
3. If not satisfied with the decision of the Division Chair, the student has the right to request a review by the Academic Affairs Committee of the College Council.
4. If not satisfied with the decision of the Academic Affairs Committee of the College Council, the student has the right to request a review by the Vice President of Academic Affairs/ Provost.

All student requests for review of grades must be made in writing prior to the aforementioned deadline. It is understood that the final decision concerning student grades is the sole prerogative of the course instructor. Accordingly, decisions made through the above grade review process are advisory in nature.

Academic Probation

The following chart will be used to determine a student’s academic standing:

Guidelines
1. Whenever grades are posted, probation status will be assessed based on the number of credits calculated and the Grade Point Average earned. (This assessment will occur every term, including summer.)
2. In addition to special programs and services offered by RACC staff members to assist students on probation, the following registration limitations will apply:
   • Registration holds will be placed on probation students after grades are posted each term. Once the holds are placed, probationary students will need to meet with a member of the advising staff in order to register for courses.
   • Designated advising staff will follow-up with students on probation in order to coordinate services and facilitate awareness of registration limitations. Probationary students will work with an advisor to develop a Success Contract which may specify coursework to be repeated or taken.
   • Students who have been on academic probation for one term may register for up to nine credits. Students who have been probation for two consecutive terms may register for up to seven credits. Students who remain on probation for three or more consecutive terms may register for up to four credits.
   • Students on academic probation may register for up to four credits during summer terms.
3. Any student whose Cumulative Grade Point Average falls in the Academic Dismissal category will not be dismissed IF his/her current term GPA is 2.0 or greater.
4. Any student who is academically dismissed may appeal for reinstatement through the Academic Affairs Committee of the College Council. Note: Once dismissed, the student will be ineligible to register for the following term. Registration for subsequent terms will be possible only if approved by the Academic Affairs Committee.

<table>
<thead>
<tr>
<th>Credits Calculated</th>
<th>Academic Dismissal</th>
<th>Academic Probation</th>
<th>Minimum Acceptable Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 16</td>
<td>.00 - 1.49</td>
<td>.90 - 1.84</td>
<td>1.50</td>
</tr>
<tr>
<td>17 - 30</td>
<td>.90 - 1.99</td>
<td>1.70 - 1.99</td>
<td>2.00</td>
</tr>
</tbody>
</table>

GRADE POINT AVERAGE (G.P.A.)

The Grade Point Average is determined by dividing the number of credits attempted into the grade points.

EXAMPLE

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr</th>
<th>Grade</th>
<th>Q.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 102</td>
<td>2</td>
<td>(B+)</td>
<td>3.3</td>
</tr>
<tr>
<td>COM 121</td>
<td>3</td>
<td>(C )</td>
<td>2.0</td>
</tr>
<tr>
<td>SOC 125</td>
<td>8</td>
<td>(A-)</td>
<td>3.7</td>
</tr>
</tbody>
</table>

23.7 ÷ 8 = Term G.P.A. 2.96

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr</th>
<th>Grade</th>
<th>Q.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 121</td>
<td>3</td>
<td>(C )</td>
<td>2.0</td>
</tr>
<tr>
<td>COM 131</td>
<td>6</td>
<td>(B-)</td>
<td>2.7</td>
</tr>
</tbody>
</table>

14.1 ÷ 6 = Term G.P.A. 2.35

37.8 ÷ 14 = Cumulative G.P.A. 2.70

See Grading System on previous page.
Graduation Requirements

The Pennsylvania State Board of Education has authorized Reading Area Community College to award the Associate in Arts Degree (A.A.), the Associate in General Studies Degree (A.G.S.), the Associate in Applied Science Degree (A.A.S.), the Certificate of Specialization, and the Diploma. The granting of a degree, certificate or diploma is recognition that a student has successfully completed all requirements for a particular program of study.

### Associate in Arts Degree
1. Successful completion (passing grades) of at least 60 credit hours of study (including the General Education Requirements for the A.A. degree) with no fewer than 15 credit hours earned at Reading Area Community College.
2. Achievement of a cumulative Grade Point Average of 2.00 or more ("C" average or better) in college-level courses (i.e., 100-level courses or higher).
3. See “Additional Requirements.”

### Associate in Applied Science Degree:
1. Successful completion (passing grades) of the required number of credit hours of study as listed in the given curriculum (including The General Education & Career Requirements for the A.A.S. degree) with no fewer than 15 credit hours earned at Reading Area Community College.
2. Achievement of a cumulative Grade Point Average of 2.00 or more ("C" average or better) in college-level courses (i.e., 100-level courses or higher).
3. See “Additional Requirements.”

### Associate in General Studies Degree:
1. Successful completion (passing grades) of at least 60 credit hours of study (including all courses in the student’s individualized program of study) with no fewer than 15 credit hours earned at Reading Area Community College.
2. Achievement of a cumulative Grade Point Average of 2.00 or more ("C" average or better) in college-level courses (i.e., 100-level courses or higher).
3. See “Additional Requirements.”

### Certificate of Specialization:
1. Successful completion of all courses listed in the certificate program.
2. Completion of 25% or more (with a minimum of 9 credits) of the certificate program at Reading Area Community College.
3. Achievement of a cumulative Grade Point Average of 2.0 or more ("C" average or better) in college-level courses (i.e., 100-level courses or higher).
4. See “Additional Requirements.”

### Diploma Programs:
1. Successful completion of all courses listed in the diploma program.
2. Completion of 25% or more (with a minimum of 6 credits) of the diploma program earned at Reading Area Community College.
3. Achievement of a cumulative Grade Point Average of 2.0 or more ("C" average or better) in college-level courses (i.e., 100-level courses or higher).
4. See “Additional Requirements.”

### Additional Requirements
- Satisfaction of all admission requirements and financial obligations to the College.
- Completion of all testing and examinations required by the College.
- Submission of the College’s Application for Graduation by publicized institutional deadlines.

### Graduation Procedures
Reading Area Community College awards most degrees, certificates, and diplomas in December and June with the exception of graduates in the Practical Nursing Program. Students who graduate from the Practical Nursing Program will be eligible for the Certificate in their September graduation ceremony. Students who wish to receive their degrees, certificates, and/or diplomas in December, June or September must submit a completed graduation application.

All program course work must be completed prior to graduation; however, students will be permitted to participate in commencement exercises with two courses remaining provided:

1. The two courses remaining for the program requirements must be taken the term following commencement.
2. Students must register for the remaining course(s) by graduation day.
3. A petition in writing must be submitted to the Vice President for Enrollment Management/Student Services to participate in commencement exercises if not all program requirements have been met. A copy of the student’s next term schedule must be attached to the petition.
4. No degree, certificate, and/or diploma awards will be released to students until all program requirements have been met.

### Policy for Graduates with Multiple Program Awards

#### SECOND DEGREE
A second degree is awarded only when all the program requirements for the second degree have been met and when students have successfully completed 15 additional credits that are not duplicated in the first degree program.

#### SECOND CERTIFICATE
A second certificate is awarded only when all the program requirements for the second certificate have been met and when students have successfully completed 9 additional credits that are not duplicated in the first certificate program.

#### SECOND DIPLOMA
A second diploma is awarded only when all the program requirements for the second diploma have been met and when students have successfully completed 6 additional credits that are not duplicated in the first diploma program.

### Combination of Degree, Certificate, and/or Diploma Awards

1. Students who plan to graduate with a combination of a degree and certificate must have successfully completed 9 additional credits toward the certificate that are not duplicated in the degree program.
2. Students who plan to graduate with a combination of a degree and diploma must have successfully completed 6 additional credits toward the diploma that are not duplicated in the degree program.
3. Students who plan to graduate with a combination of a certificate and diploma must have successfully completed 6 additional credits toward the diploma that are not duplicated in the certificate program.

4. Students who plan to graduate with a combination of a degree, certificate, and diploma must have successfully completed 15 additional credits toward the certificate and diploma that are not duplicated in the degree program.

Students who were enrolled at RACC prior to the Fall 2005 Term and who have maintained matriculation without interruptions of no more than two terms, will not be subject to the new policy and the College will be able to use the cumulative GPA that includes both pre-collegiate and college-level courses for graduation eligibility and approval. Meanwhile, “all new students” in the Fall 2005 Term and “returning students who have not maintained matriculation at RACC during two consecutive terms” will be subject to the new policy’s effective start date of Fall 2005 Term.

**BASIC COURSES AS FREE ELECTIVES**

Effective with the Fall Term 2003, only credit courses with a designation of 100 or above will apply toward degrees, certificates, and/or diplomas. This policy applies to new students and students who are readmitted to the college after an absence of more than two consecutive terms (excluding summer terms). A student who is readmitted and/or officially changes his/her program area of study is required to follow the catalog in effect at the time of his/her readmission and/or change of academic program.

---

## General Education Requirements

### ASSOCIATE IN APPLIED SCIENCE

**Career Programs**

The College offers the Associate in Applied Science (A.A.S.) degree. These A.A.S. degrees are also referred to as Career Programs. They academically prepare students for employment upon graduation.

The General Education Requirements for all A.A.S. candidates are listed on the following pages. It is mandatory that all A.A.S. candidates complete these courses in addition to their Major Requirements. The purpose of this component of the associate degree is to offer exposure to the five academic divisions of the College which will serve to enhance the strength of the program in which students choose to major. Deviations from these requirements are approved only for extenuating circumstances by the Faculty Advisor, Division Chair and Vice-President of Academic Affairs/Provost.

### ASSOCIATE IN ARTS

**Transfer Programs**

Students pursuing a Transfer Program will earn the Associate in Arts (A.A.) degree upon completion of all requirements. The programs have been designed with a level of adaptability because of the diversity of colleges and universities to which students may transfer.

The General Education Requirements for all A.A. programs are listed on the following pages. They are the mandatory courses that students complete in addition to their Major Requirements and Electives. As noted in the previous paragraph, the variance of academic programs at other educational institutions makes the selection of the Major Core Electives of paramount importance; therefore, it is recommended that students work closely with the Center for Academic Success, their Advisor, and the Admissions Department of the four-year college or university to which they wish to transfer.

Although the College maintains a position of adaptability with regard to certain courses within the A.A. curricula, deviations from the General Education Requirements or the Major Requirements are approved only for extenuating circumstances by the Faculty Advisor, Division Chair and Vice-President of Academic Affairs/Provost.

### ASSOCIATE IN GENERAL STUDIES

**Individualized Programs**

The Associate in General Studies (A.G.S.) degree is an individualized curriculum which allows students to design their own degree programs for professional development or transfer. The College may also recommend the A.G.S. to students with a large number of transfer credits because of the proportion of total credits in free electives.

The General Education Requirements listed on the following pages are the mandatory courses that all A.G.S. candidates complete in addition to Electives. Deviations from these requirements are approved only for extenuating circumstances by the Director of the Center for Academic Success, Division Chair and Vice-President of Academic Affairs/Provost.

**NOTE:** This degree program requires careful planning with the transfer institution to allow for maximum transferability of credits.

### CERTIFICATE OF SPECIALIZATION

**College Credit Programs**

The Certificate of Specialization - College Credit Programs provide students with the opportunity to gain specialized knowledge to advance in their jobs, learn new skills, update the skills they have, or to help them change careers.

Generally, similarities between the requirements of the Certificate Programs and the corresponding Associate in Applied Science programs can be found. Therefore, many candidates elect to enroll in the Certificate Program first and then, after completion, continue in the Associate in Applied Science degree.

### DIPLOMA

**College Credit Programs**

The Diploma - College Credit Programs provide students with specific technical job skills. Students who complete the requirements of a Diploma gain specialized skills for workforce entry or promotion.
The Institutional Core Competencies are the knowledge, skills and abilities that Reading Area Community College graduates should be able to demonstrate in the workplace and society of the 21st Century. These institutional core competencies will be integrated into the general education core curriculum of each College associate degree program to ensure that students have learned the critical skills to succeed in today’s rapidly-changing, global and technological society. Therefore, each graduate of an associate degree will be expected to learn and show competencies in the following areas:

COMMUNICATION SKILLS
Graduates should be able to communicate effectively in a variety of modes, within a variety of settings and for a variety of purposes. This involves mastery of college-level reading, writing, speaking and listening skills as well as effective interpersonal skills.

AWAWARENESS AND SENSITIVITY SKILLS
Graduates should be able to analyze the diverse aspects of cultural heritage, including those artistic, historical, economic, political, social, scientific and technological developments that help shape present societies and the impact of this heritage on the environment. They should be able to identify their personal values, recognize ethical choices and analyze the implications of personal decisions. Graduates should be able to demonstrate personal growth and an awareness of cultural diversity.

CRITICAL THINKING SKILLS
Drawing from the knowledge of appropriate disciplines, graduates should be able to evaluate the validity of ideas through critical thinking, which employs the skills of reasoning, logic and creativity. Using these skills, graduates should be able to present convincing arguments.

PROBLEM SOLVING SKILLS
Using critical thinking skills, graduates should be able to solve problems. This process requires assessing information; identifying problems; generating, evaluating and selecting possible solutions as well as preparing and evaluating implementation plans.

STUDY SKILLS
Graduates should be able to employ effective study skills in order to meet assessment criteria. This process includes the ability to follow directions, implement various reading strategies and identify and organize critical information for future recall. In addition, graduates should be able to demonstrate self-directed learning.

MATHEMATICAL SKILLS
Graduates should be able to apply the skills of qualitative reasoning, quantitative reasoning, symbolic reasoning and computation to evaluate and solve mathematical problems systematically.

INFORMATION TECHNOLOGY SKILLS
Graduates should be able to demonstrate the ability to create, save, retrieve, modify and analyze data using computer-based technology. They should be able to use word processing software as well as software appropriate to their program of study. In addition, graduates should be able to access information via the Internet and other digital sources.

INFORMATION LITERACY SKILLS
Graduates should be able to access, evaluate, organize and use information ethically and legally using a variety of credible sources and demonstrate appropriate methods of research. In addition, they should be able to interpret and evaluate findings and draw conclusions.
GENERAL EDUCATION REQUIREMENTS FOR
THE ASSOCIATE IN APPLIED SCIENCE

Career Programs • 20 minimum credits

COMMUNICATIONS

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 121</td>
<td></td>
<td>English Composition</td>
</tr>
<tr>
<td>OR COM 122</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 106</td>
<td></td>
<td>Business Communications</td>
</tr>
<tr>
<td>COM 131</td>
<td></td>
<td>Composition &amp; Literature</td>
</tr>
<tr>
<td>OR COM 132</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 141</td>
<td></td>
<td>Technical Writing</td>
</tr>
</tbody>
</table>

AND one of the following as listed in the career program:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 106</td>
<td></td>
<td>Business Communications</td>
</tr>
<tr>
<td>COM 131</td>
<td></td>
<td>Composition &amp; Literature</td>
</tr>
<tr>
<td>OR COM 132</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 141</td>
<td></td>
<td>Technical Writing</td>
</tr>
</tbody>
</table>

HUMANITIES

Choose ONE from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 111</td>
<td></td>
<td>Introduction to Drawing</td>
</tr>
<tr>
<td>ART 121</td>
<td></td>
<td>Painting</td>
</tr>
<tr>
<td>ART 201</td>
<td></td>
<td>Art Appreciation</td>
</tr>
<tr>
<td>HUM 221</td>
<td></td>
<td>Music Appreciation</td>
</tr>
<tr>
<td>HUM 231</td>
<td></td>
<td>World Literature I</td>
</tr>
<tr>
<td>HUM 235</td>
<td></td>
<td>World Literature II</td>
</tr>
<tr>
<td>HUM 241</td>
<td></td>
<td>American Literature I</td>
</tr>
<tr>
<td>HUM 245</td>
<td></td>
<td>American Literature II</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 221</td>
<td></td>
<td>Music Appreciation</td>
</tr>
<tr>
<td>HUM 231</td>
<td></td>
<td>World Literature I</td>
</tr>
<tr>
<td>HUM 235</td>
<td></td>
<td>World Literature II</td>
</tr>
<tr>
<td>HUM 241</td>
<td></td>
<td>American Literature I</td>
</tr>
<tr>
<td>HUM 245</td>
<td></td>
<td>American Literature II</td>
</tr>
</tbody>
</table>

MATHEMATICS

Select the specific course listed in the career program:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 110</td>
<td></td>
<td>Business Mathematics</td>
</tr>
<tr>
<td>MAT 110</td>
<td></td>
<td>Algebra II</td>
</tr>
<tr>
<td>MAT 150</td>
<td></td>
<td>Foundations of Mathematics</td>
</tr>
<tr>
<td>MAT 160</td>
<td></td>
<td>College Algebra</td>
</tr>
<tr>
<td>MAT 180</td>
<td></td>
<td>Precalculus</td>
</tr>
<tr>
<td>MTT 120</td>
<td></td>
<td>Machine Tool Mathematics I</td>
</tr>
</tbody>
</table>

MATHEMATICS

Select the specific course listed in the career program:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 110</td>
<td></td>
<td>Business Mathematics</td>
</tr>
<tr>
<td>MAT 110</td>
<td></td>
<td>Algebra II</td>
</tr>
<tr>
<td>MAT 150</td>
<td></td>
<td>Foundations of Mathematics</td>
</tr>
<tr>
<td>MAT 160</td>
<td></td>
<td>College Algebra</td>
</tr>
<tr>
<td>MAT 180</td>
<td></td>
<td>Precalculus</td>
</tr>
<tr>
<td>MTT 120</td>
<td></td>
<td>Machine Tool Mathematics I</td>
</tr>
</tbody>
</table>

NATURAL/PHYSICAL SCIENCES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 130</td>
<td></td>
<td>The Environment</td>
</tr>
<tr>
<td>OR ENV 131</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ORIENTATION

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 102</td>
<td></td>
<td>College Success Strategies****</td>
</tr>
<tr>
<td>OR ORI 101</td>
<td></td>
<td>(Course must be taken during first term of enrollment.)</td>
</tr>
</tbody>
</table>

SOCIAL SCIENCES

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 125</td>
<td></td>
<td>The Individual &amp; Society</td>
</tr>
</tbody>
</table>

The total credits required to fulfill the graduation requirements for the Associate in Applied Science degree programs vary according to the major area of study. Please see your academic advisor at least two terms prior to graduation to determine whether you meet the graduation requirements for your major.

* A higher level mathematics course may be substituted for the one listed in the curriculum outline if approved by the Faculty Advisor.
** Students majoring in Laboratory Technician, Medical Laboratory, Nursing, or Respiratory Care fulfill this requisite with a four-credit, laboratory science course.
*** Nursing students substitute sociology for this course.
**** Any transfer student who has completed a minimum of 24 credits with a GPA of 2.0 or better from an accredited college or university may choose to have the College Success Strategies class waived.
GENERAL EDUCATION REQUIREMENTS FOR
THE ASSOCIATE IN ARTS

Transfer Programs • 33 minimum credits

COMMUNICATIONS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 121</td>
<td>English Composition or COM 122</td>
</tr>
<tr>
<td>COM 131</td>
<td>Composition &amp; Literature or COM 132</td>
</tr>
</tbody>
</table>

CREDITS - 6

HUMANITIES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 111</td>
<td>Introduction to Drawing</td>
</tr>
<tr>
<td>ART 121</td>
<td>Painting</td>
</tr>
<tr>
<td>ART 201</td>
<td>Art Appreciation</td>
</tr>
<tr>
<td>HUM 221</td>
<td>Music Appreciation</td>
</tr>
<tr>
<td>HUM 231</td>
<td>World Literature I</td>
</tr>
<tr>
<td>HUM 235</td>
<td>World Literature II</td>
</tr>
<tr>
<td>HUM 241</td>
<td>American Literature I</td>
</tr>
<tr>
<td>HUM 245</td>
<td>American Literature II</td>
</tr>
</tbody>
</table>

CREDITS - 6

Choose TWO from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 111</td>
<td>Introduction to Drawing</td>
</tr>
<tr>
<td>ART 121</td>
<td>Painting</td>
</tr>
<tr>
<td>ART 201</td>
<td>Art Appreciation</td>
</tr>
<tr>
<td>HUM 221</td>
<td>Music Appreciation</td>
</tr>
<tr>
<td>HUM 231</td>
<td>World Literature I</td>
</tr>
<tr>
<td>HUM 235</td>
<td>World Literature II</td>
</tr>
<tr>
<td>HUM 241</td>
<td>American Literature I</td>
</tr>
<tr>
<td>HUM 245</td>
<td>American Literature II</td>
</tr>
<tr>
<td>HUM 249</td>
<td>Contemporary American Literature</td>
</tr>
<tr>
<td>HUM 251</td>
<td>Introduction to Drama</td>
</tr>
<tr>
<td>HUM 255</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>HUM 261</td>
<td>History of Film</td>
</tr>
<tr>
<td>HUM 271</td>
<td>Introduction to Philosophy</td>
</tr>
<tr>
<td>HUM 275</td>
<td>Ethics</td>
</tr>
<tr>
<td>HUM 299</td>
<td>Seminar</td>
</tr>
</tbody>
</table>

MATHEMATICS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 150</td>
<td>Foundations of Mathematics</td>
</tr>
<tr>
<td>MAT 160</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MAT 165</td>
<td>Trigonometry</td>
</tr>
</tbody>
</table>

CREDITS - 3 to 4

Choose ONE from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 150</td>
<td>Foundations of Mathematics</td>
</tr>
<tr>
<td>MAT 160</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MAT 165</td>
<td>Trigonometry</td>
</tr>
<tr>
<td>MAT 180</td>
<td>Precalculus</td>
</tr>
<tr>
<td>MAT 210</td>
<td>Statistics</td>
</tr>
<tr>
<td>MAT 220</td>
<td>Calculus I</td>
</tr>
</tbody>
</table>

NATURAL/PHYSICAL SCIENCES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 130</td>
<td>The Environment or ENV 131</td>
</tr>
<tr>
<td>BIO 120</td>
<td>Biological Concepts</td>
</tr>
<tr>
<td>BIO 150</td>
<td>Biology I</td>
</tr>
<tr>
<td>BIO 155</td>
<td>Biology II</td>
</tr>
<tr>
<td>BIO 205</td>
<td>Zoology</td>
</tr>
<tr>
<td>BIO 210</td>
<td>Botany</td>
</tr>
<tr>
<td>BIO 280</td>
<td>Microbiology</td>
</tr>
<tr>
<td>CHE 120</td>
<td>Principles of Chemistry</td>
</tr>
<tr>
<td>CHE 150</td>
<td>Chemistry I</td>
</tr>
<tr>
<td>CHE 155</td>
<td>Chemistry II</td>
</tr>
<tr>
<td>CHE 120</td>
<td>Principles of Physics</td>
</tr>
<tr>
<td>PHY 240</td>
<td>Physics I</td>
</tr>
<tr>
<td>PHY 245</td>
<td>Physics II</td>
</tr>
</tbody>
</table>

CREDITS - 7

ORIENTATION

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 102</td>
<td>College Success Strategies***</td>
</tr>
<tr>
<td>ORI 101</td>
<td>(Course must be taken during first term of enrollment.)</td>
</tr>
</tbody>
</table>

SOCIAL SCIENCES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 140</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>POS 130</td>
<td>American Government</td>
</tr>
<tr>
<td>PSY 130</td>
<td>General Psychology</td>
</tr>
<tr>
<td>ANT 135</td>
<td>Human Evolution: Physical, Anthropology, &amp; Archaeology</td>
</tr>
<tr>
<td>ANT 140</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>ECO 250</td>
<td>Comparative Economic Systems</td>
</tr>
<tr>
<td>BUS 200</td>
<td>Macroeconomics</td>
</tr>
<tr>
<td>BUS 201</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>HIS 110</td>
<td>History of the United States to 1877</td>
</tr>
<tr>
<td>HIS 115</td>
<td>History of the United States Since 1865</td>
</tr>
<tr>
<td>HIS 120</td>
<td>Western Civilization: To 1600</td>
</tr>
<tr>
<td>HIS 125</td>
<td>Western Civilization: 1600-1945</td>
</tr>
<tr>
<td>HIS 125</td>
<td>Social Sciences Honors Elective</td>
</tr>
<tr>
<td>HIS 120</td>
<td>Western Civilization: To 1600</td>
</tr>
<tr>
<td>HIS 125</td>
<td>Western Civilization: 1600-1945</td>
</tr>
<tr>
<td>HIS 125</td>
<td>Social Sciences Honors Elective</td>
</tr>
</tbody>
</table>

CREDITS - 6

Choose ONE from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 130</td>
<td>Introduction to Contemporary History</td>
</tr>
<tr>
<td>POS 130</td>
<td>American Government</td>
</tr>
<tr>
<td>POS 135</td>
<td>State &amp; Local Government</td>
</tr>
<tr>
<td>PSY 120</td>
<td>Interpersonal Relations</td>
</tr>
<tr>
<td>PSY 130</td>
<td>General Psychology</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual &amp; Society</td>
</tr>
<tr>
<td>SOC 130</td>
<td>Sociology</td>
</tr>
</tbody>
</table>

ELECTIVE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 151</td>
<td>Fundamentals of Speech or COM 152</td>
</tr>
<tr>
<td>PSY 120</td>
<td>Interpersonal Relations &amp; Communications</td>
</tr>
<tr>
<td>HEA 110</td>
<td>Health</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

CREDITS - 3 to 4

Choose ONE of the following courses or any course listed on this page which has not been used to fulfill the academic discipline requisite:

A minimum of 60 credits is required to fulfill the graduation requirements for the Associate in Arts degree program. Please see your academic advisor at least two terms prior to graduation to determine whether you meet the graduation requirements for your major.

** Major requirements may not be used to satisfy general education requirements.

*** Any transfer student who has completed a minimum of 24 credits with a GPA of 2.0 or better from an accredited college or university may choose to have the College Success Strategies class waived.
# GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE IN GENERAL STUDIES

*Individualized Program* • 23 minimum credits

## COMMUNICATIONS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>OR COM 122</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>COM 131</td>
<td>Composition &amp; Literature</td>
<td>3</td>
</tr>
<tr>
<td>OR COM 132</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 141</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>COM 151</td>
<td>Fundamentals of Speech</td>
<td>3</td>
</tr>
</tbody>
</table>

**AND Choose ONE of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>OR COM 122</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 131</td>
<td>Composition &amp; Literature</td>
<td>3</td>
</tr>
<tr>
<td>OR COM 132</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 141</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>COM 151</td>
<td>Fundamentals of Speech</td>
<td>3</td>
</tr>
</tbody>
</table>

## HUMANITIES

**Choose ONE of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 111</td>
<td>Introduction to Drawing</td>
<td>3</td>
</tr>
<tr>
<td>HUM 121</td>
<td>Painting</td>
<td>3</td>
</tr>
<tr>
<td>HUM 201</td>
<td>Art Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>HUM 221</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>HUM 231</td>
<td>World Literature I</td>
<td>3</td>
</tr>
<tr>
<td>HUM 235</td>
<td>World Literature II</td>
<td>3</td>
</tr>
<tr>
<td>HUM 241</td>
<td>American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>HUM 245</td>
<td>American Literature II</td>
<td>3</td>
</tr>
</tbody>
</table>

**OR Choose ONE of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 111</td>
<td>Introduction to Drawing</td>
<td>3</td>
</tr>
<tr>
<td>HUM 121</td>
<td>Painting</td>
<td>3</td>
</tr>
<tr>
<td>HUM 201</td>
<td>Art Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>HUM 221</td>
<td>Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>HUM 231</td>
<td>World Literature I</td>
<td>3</td>
</tr>
<tr>
<td>HUM 235</td>
<td>World Literature II</td>
<td>3</td>
</tr>
<tr>
<td>HUM 241</td>
<td>American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>HUM 245</td>
<td>American Literature II</td>
<td>3</td>
</tr>
</tbody>
</table>

## MATHEMATICS

**Choose ONE of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAT 110</td>
<td>Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>MAT 150</td>
<td>Foundations of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAT 160</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

**OR Choose ONE of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAT 110</td>
<td>Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>MAT 150</td>
<td>Foundations of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAT 160</td>
<td>College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

## NATURAL/PHYSICAL SCIENCES

**Choose ONE of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 120</td>
<td>Biological Concepts</td>
<td>3</td>
</tr>
<tr>
<td>BIO 150</td>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHE 120</td>
<td>Principles of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHE 150</td>
<td>Chemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>

**OR Choose ONE of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 120</td>
<td>Biological Concepts</td>
<td>3</td>
</tr>
<tr>
<td>BIO 150</td>
<td>Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHE 120</td>
<td>Principles of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHE 150</td>
<td>Chemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>

## ORIENTATION

**Choose ONE of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 102</td>
<td>College Success Strategies*</td>
<td>2</td>
</tr>
<tr>
<td>ORI 101</td>
<td>(Course must be taken during first term of enrollment.)</td>
<td>2</td>
</tr>
</tbody>
</table>

## SOCIAL SCIENCES

**Choose TWO of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 135</td>
<td>Human Evolution: Physical, Anthropology &amp; Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 140</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>HIS 110</td>
<td>History of the United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIS 115</td>
<td>History of the United States Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIS 120</td>
<td>Western Civilization: To 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIS 125</td>
<td>Western Civilization: 1600-1945</td>
<td>3</td>
</tr>
</tbody>
</table>

**OR Choose TWO of the following courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 135</td>
<td>Human Evolution: Physical, Anthropology &amp; Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 140</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>HIS 110</td>
<td>History of the United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIS 115</td>
<td>History of the United States Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIS 120</td>
<td>Western Civilization: To 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIS 125</td>
<td>Western Civilization: 1600-1945</td>
<td>3</td>
</tr>
</tbody>
</table>

## ELECTIVE REQUIREMENTS

**Credits - 36 to 38**

A minimum of 60 credits is required to fulfill the graduation requirements for the Associate in General Studies degree program. Please see your academic advisor at least two terms prior to graduation to determine whether you meet the graduation requirements for your major.

*Any transfer student who has completed a minimum of 24 credits with a GPA of 2.0 or better from an accredited college or university may choose to have the College Success Strategies class waived.*
GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE IN SCIENCE

Career Programs • 39 minimum credits

COMMUNICATIONS

CREDITS - 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>COM 122</td>
<td>Composition &amp; Literature</td>
<td>3</td>
</tr>
<tr>
<td>COM 141</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

HUMANITIES

CREDITS - 3

Choose ONE from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 111</td>
<td>Introduction to Drawing</td>
</tr>
<tr>
<td>ART 121</td>
<td>Painting</td>
</tr>
<tr>
<td>ART 201</td>
<td>Art Appreciation</td>
</tr>
<tr>
<td>HUM 221</td>
<td>Music Appreciation</td>
</tr>
<tr>
<td>HUM 231</td>
<td>World Literature I</td>
</tr>
<tr>
<td>HUM 235</td>
<td>World Literature II</td>
</tr>
<tr>
<td>HUM 241</td>
<td>American Literature I</td>
</tr>
</tbody>
</table>

MATHEMATICS

CREDITS - 6 to 8

Choose TWO from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 180</td>
<td>Precalculus</td>
</tr>
<tr>
<td>MAT 210</td>
<td>Statistics</td>
</tr>
<tr>
<td>MAT 220</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MAT 221</td>
<td>Calculus II</td>
</tr>
</tbody>
</table>

NATURAL/PHYSICAL SCIENCES

CREDITS - 19

Choose FOUR Lab Sciences (two of the following sequences):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
</tr>
<tr>
<td>ENV 131</td>
<td>or ENV 131</td>
</tr>
<tr>
<td>BIO 150</td>
<td>Biology I</td>
</tr>
<tr>
<td>CHE 150</td>
<td>Chemistry I</td>
</tr>
<tr>
<td>PHY 240</td>
<td>Physics I</td>
</tr>
<tr>
<td>BIO 155</td>
<td>Biology II</td>
</tr>
<tr>
<td>CHE 155</td>
<td>Chemistry II</td>
</tr>
<tr>
<td>PHY 245</td>
<td>Physics II</td>
</tr>
</tbody>
</table>

SOCIAL SCIENCES

CREDITS - 3

Choose ONE from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 135</td>
<td>Human Evolution</td>
</tr>
<tr>
<td>ANT 140</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>ECO 250</td>
<td>Comparative Economic Systems</td>
</tr>
<tr>
<td>BUS 200</td>
<td>Macroeconomics</td>
</tr>
<tr>
<td>BUS 201</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>HIS 110</td>
<td>History of the United States to 1877</td>
</tr>
<tr>
<td>HIS 115</td>
<td>History of the United States Since 1865</td>
</tr>
<tr>
<td>HIS 120</td>
<td>Western Civilization: To 1600</td>
</tr>
<tr>
<td>HIS 125</td>
<td>or PSY 131 Individual &amp; Society</td>
</tr>
<tr>
<td>POS 130</td>
<td>American Government</td>
</tr>
<tr>
<td>POS 135</td>
<td>State &amp; Local Government</td>
</tr>
<tr>
<td>PSY 120</td>
<td>Interpersonal Relations</td>
</tr>
<tr>
<td>PSY 130</td>
<td>General Psychology</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual &amp; Society</td>
</tr>
<tr>
<td>SOC 130</td>
<td>Sociology</td>
</tr>
</tbody>
</table>

ORIENTATION

CREDITS - 2

Choose ONE from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
</tr>
<tr>
<td>ORI 101</td>
<td>(Course must be taken during first term of enrollment.)</td>
</tr>
</tbody>
</table>

A minimum of 60 credits is required to fulfill the graduation requirements for the Associate in Science degree program.
Five academic divisions come together to make up Reading Area Community College. Although each division has its own Chair and Faculty, they interact daily and work together closely. Students will typically take some courses from each division. The five divisions are listed below.

**BUSINESS DIVISION**

Division Chair: Linda Bell  
Division Office: Penn Hall, Room 218

The Business Division offers programs in Accounting, Computers, Management, Office Technologies, and Travel & Tourism. Each curriculum combines hands-on problem-solving experiences built upon a solid foundation of applied theory, giving students the best possible background for pursuing a career or transferring to a four-year program.

**ASSOCIATE IN ARTS DEGREE**

**Transfer Programs**
- Accounting
- Business Administration
- Business Education -  
- Information Technology
- Industrial Administration  

**ASSOCIATE IN APPLIED SCIENCE DEGREE**

**Career Programs**
- Accounting
- Administrative Assistant
- Banking Technology  
- Business Management
  - Management Concentration
  - Human Resources Management Concentration  
  - Operations Management Concentration  
  - Retail Management Concentration  
  - Small Business Management Concentration  
- Culinary Arts
- Executive Secretary
- Information Technology
  - Networking Concentration
  - Programming Concentration
  - User Support Concentration -  
- Website Development Concentration

**CERTIFICATE OF SPECIALIZATION**

**College Credit Programs**
- Advanced Secretarial Skills  
- Banking Technology
- Banking Technology - Office Technology in Banking
- Basic Clerical Skills  
- Basic Secretarial Skills
- Bookkeeping/Accounting
- Business Management
- Culinary Arts (Certified Cook)
- Human Resources Management  
- Information Technology
  - Networking Concentration  
  - Programming Concentration
  - User Support Concentration
  - Website Development Concentration
- Legal Secretary
- Medical Secretary  
- Retail Management  
- Small Business Management  

**Diploma Programs**
- Advanced Secretarial Skills  
- Basic Secretarial Skills
- Legal Secretarial Skills  
- Medical Secretarial Skills  
- Medical Transcriptionist

**DIVISION OF HEALTH PROFESSIONS**

Division Chair: Amelia Capotosta  
Division Office: Penn Hall, Room 420

The Health Professions Division offers career preparation in a variety of programs. The Nursing (R.N.) program is a career program with formal articulation agreements with other colleges and universities which enables students to pursue a baccalaureate degree in nursing. An A.A.S. degree Respiratory Care program and post-associate degree Respiratory Therapist program are offered for entry-level practice and career advancement. All of the Health Professions programs have a strong science base and clinical component in addition to theory to prepare students for the registry or licensing examinations in their field.

**ASSOCIATE IN APPLIED SCIENCE DEGREE**

**Career Programs**
- Medical Laboratory Technician (M.L.T.)
- Nursing (R.N.)
- Respiratory Care (R.R.T.)

**CERTIFICATE OF SPECIALIZATION**

**College Credit Programs**
- Practical Nursing (L.P.N.)

**ASSOCIATE IN ARTS DEGREE**

**Transfer Program**
- Medical Technology  

- Legal Secretary
- Medical Secretary  
- Word Processing Specialist  

- Administrative Assistant  
- Advanced Secretarial Skills  
- Banking Technology
- Banking Technology - Office Technology in Banking
- Basic Clerical Skills  
- Basic Secretarial Skills
- Bookkeeping/Accounting
- Business Management
- Culinary Arts (Certified Cook)
- Human Resources Management  
- Information Technology
  - Networking Concentration  
  - Programming Concentration
  - User Support Concentration
  - Website Development Concentration
- Legal Secretary
- Medical Secretary  
- Retail Management  
- Small Business Management  

- Advanced Secretarial Skills  
- Basic Secretarial Skills
- Legal Secretarial Skills  
- Medical Secretarial Skills  
- Medical Transcriptionist

- Medical Secretary  
- Retail Management  
- Small Business Management  

- Medical Secretary  
- Medical Transcriptionist  

- Medical Secretary  
- Medical Transcriptionist  

- Medical Secretary  
- Medical Transcriptionist
The Social Sciences/Human Services Division offers programs for career preparation and transfer as well as courses which supplement programs offered by other Divisions. Programs of career study prepare students for work in both public and private agencies which provide an expanding range of human services. College transfer programs prepare students to go on to four-year colleges and universities to pursue more extensive training in the Social Sciences and Human Services fields.

ASSOCIATE IN ARTS DEGREE
Transfer Programs
Addictions Studies  ✓ RETIRE
Education
Elementary Education Concentration
Secondary Education Concentration
Special Education Concentration
Pre-Law/Public Administration
Psychology
Social Work
Sociology/Athropology

ASSOCIATE IN APPLIED SCIENCE DEGREE
Career Programs
Early Childhood Education Teaching
Early Childhood Education Management
Educational Technology  ✓ RETIRE
Human Services Worker
Criminal Justice/Law Enforcement Administration
Special Education Paraeducator

CERTIFICATE OF SPECIALIZATION
College Credit Programs
Professional Childcare
Early Childhood Director

Diploma Program
Early Childhood Diploma

The Science and Mathematics Division offers programs in the natural sciences and the technologies. College transfer programs and career programs provide students with a wide range of choices. The acquisition of employable skills and the development of an appropriate academic base for further study allow the student flexibility in the development of career goals.

ASSOCIATE IN ARTS DEGREE
Transfer Programs
Biological Sciences/Preprofessional  ✓ RETIRE
Biology Concentration  ✓ RETIRE
Pharmacy Concentration  ✓ RETIRE
Pre-Med., Dental, Veterinary, Chiropractic Con.  ✓ RETIRE
Chemistry  ✓ RETIRE
Environmental Science Technology  ✓ RETIRE
Laboratory Science - Nanoscience Technology
  2+2+2 Millersville University
  2+2+2 Penn State Berks
Mechanical Engineering Technology  ✓ RETIRE

ASSOCIATE IN APPLIED SCIENCE DEGREE
Career Programs
Electric Utility Technology
Heating, Ventilation, Air Conditioning & Refrigeration
Industrial Maintenance Technician  ✓ RETIRE
Laboratory Science
  Laboratory Technician Concentration  ✓ RETIRE
  Nanoscience Concentration
Machine Tool Technology
Professional Pilot  ✓ RETIRE

CERTIFICATE OF SPECIALIZATION
College Credit Programs
Professional Childcare
Early Childhood Director

Diploma Program
Early Childhood Diploma

The Humanities Division offers a flexible program of study preparing students for transfer to a four-year institution’s Humanities, Liberal Arts, or Fine Arts program. The Division also provides communications and humanities elective courses that are essential to the general education core and, therefore, to the graduation requirements of all programs offered at Reading Area Community College.

ASSOCIATE IN ARTS DEGREE
Transfer Programs
Communications Transfer
Humanities Transfer
Liberal Arts Transfer

The programs listed as ✓ RETIRE are scheduled to become inactive June 2007. No new student admissions will be taken for these programs.
ACCOUNTING

Associate in Applied Science Degree

The Accounting program is designed to prepare students for a career in public accounting, industry, or as self-employed business people. Graduates of this program will have a well-rounded background in all major areas within accounting, preparing them for positions as public accounting paraprofessionals, cost accountants, tax preparers, general accounting clerks, or office managers. College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.

Upon successful completion of this program, the student should be able to:

- Utilize a personal computer to prepare documents using word processing, spreadsheets and database software and to perform basic navigation of the Internet.
- Apply economic theory to solve social, political, financial, and business problems.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Apply math operations to solve fundamental business problems.
- Utilize business management principles to analyze problems and make decisions.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
- Perform the steps in the accounting cycle both manually and using computerized general ledger software.
- Apply accounting theory to complex business transactions.
- Evaluate the internal control goals of various accounting information systems and recommend appropriate control plans to ensure the accomplishment of organizational goals.
- Prepare tax returns and conduct research utilizing the Internal Revenue Code.
- Apply the law to recognize legal implications of business and personal transactions.

Required Program of Study

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 110</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>MGT 100</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MAT 150</td>
<td>Foundations of Math</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 125</td>
<td>Accounting Principles I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 220</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HUM -</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 205</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 200</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENV 130</td>
<td>Environment</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Fifth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 206</td>
<td>Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACC 230</td>
<td>Federal Taxes</td>
<td>3</td>
</tr>
<tr>
<td>BUS 201</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Sixth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Business Elective</td>
<td>3</td>
</tr>
<tr>
<td>BUS 230</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program 65

The following courses qualify as a Business Elective: ACC 210, ACC 235, ACC 240, ACC 290 with CAR 105, BUS 220, MAT 210, MGT 230.

This program integrates several computerized software packages to give students exposure to various business technologies.

ACCOUNTING TRANSFER PROGRAM

Associate in Arts Degree

The Accounting Transfer program is designed to prepare students to enter baccalaureate programs in accounting on the junior level.

Upon successful completion of this program, the student should be able to:

- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Utilize a personal computer to prepare documents using word processing, spreadsheet and database software and to perform basic navigation of the Internet.
- Utilize business principles to analyze problems and make decisions.
- Apply economic theory to analyze social, political, financial and business problems.
- Transfer to an accredited college or university.

See General Education Requirements

Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 200</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 201</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Suggested Electives

Courses selected as electives will depend upon the institution to which you will transfer. It is essential that you consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

Minimum Credit Hours Required for the Program 60
ACCOUNTING CERTIFICATE
College Credit Certificate
The Accounting certificate program is designed for accountants who are working in the field and would like to expand their knowledge of all areas of accounting, as well as for students who currently have a bachelor’s degree and desire a change of careers. The program provides sufficient accounting credits to meet the requirements for both the CPA and CMA examinations.

Upon successful completion of this program, the student should be able to:
• Utilize a personal computer to prepare documents using word processing, spreadsheets and database software and to perform basic navigation of the Internet.
• Demonstrate effective communication skills in writing and speaking in a business environment.
• Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
• Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
• Perform the steps in the accounting cycle both manually and using computerized general ledger software.
• Evaluate the internal control goals of various accounting information systems and recommend appropriate control plans to ensure the accomplishment of organizational goals.
• Prepare tax returns and conduct research utilizing the Internal Revenue Code.
• Apply generally accepted auditing standards in the planning and implementation of an audit by an independent auditor.
• Apply the law to recognize the legal implications of business and personal transactions.

Required Program of Study
ACC 105 Financial Accounting 3
ACC 110 Managerial Accounting 3
ACC 125 Accounting Principles I 3
ACC 205 Intermediate Accounting I 3
ACC 206 Intermediate Accounting II 3
ACC 220 Accounting Information Systems 3
ACC 230 Federal Taxes 3
ACC 235 Auditing 3
BUS 230 Business Law 3
IFT 110 Microcomputer Applications 3
-- -- Business Elective (see list below) 3

Total Credit Hours Required for the Certificate 33

Additional prerequisites may be necessary for some courses and are found in the Course Descriptions section of this catalog. Students must confer with their academic advisor when selecting an elective. These courses qualify as Business Electives: ACC 210, ACC 240, IFT 120, MGT 230. PLEASE SEE YOUR ADVISOR FOR ASSISTANCE REGARDING THE TERM IN WHICH THESE COURSES ARE OFFERED.

ADDICTIONS STUDIES TRANSFER PROGRAM
NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.
ASSOCIATE IN ARTS DEGREE
This program is designed to prepare the student to enter a baccalaureate program in Addictions on the junior level.

See General Education Requirements
Courses selected as electives will depend upon the institution to which you will transfer. It is essential that students consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

Upon successful completion of this program, the student should be able to:
• Relate addiction theory as applied to the human service worker.
• Apply the psychological theories that are pertinent to the causes of addictive behavior and its treatment.
• Apply the sociological theories that explain the causes of addictive behavior and its treatment.
• Analyze the sociobiological basis of addictive conduct and its implications for assessment and treatment of substance abuse.
• Identify the pertinent laws that regulate controlled substances and address prevention, prosecution, and treatment.
• Analyze the pharmacological and physiological factors that are involved in chemical dependence.
• Identify symptoms, signs, and personal history background of the addicted individual.
• Show counseling skills in individual and group approaches to help chemically dependent helpers.
• Create a case management system including roles, duties, and functions in order to serve the organizational purposes of a human service organization.
• Transfer to an accredited college/university.

Major Requirements
SOC 225 Drugs & Alcohol in American Society 3
PSY 232 The Addictive Processes 3
PSY 120 Interpersonal Relations & Communication 3
PSY 130 General Psychology 3
or SOC 130 Sociology 3
SOC 210 Social Problems 3

Suggested Electives
ANT 135 CHE 220 POS 135 PSY 220 SOC 130
ANT 140 HMS 110 PSY 130 PSY 225 SOC 220
BIO 120 HMS 240 PSY 210 PSY 230 SPA 101
CHE 120 LAW 150 PSY 212 PSY 235 SPA 102
CHE 150 MAT 210 PSY 214 PSY 240 SST 110
CHE 155 POS 130 PSY 216 SOC 125

ADMINISTRATIVE ASSISTANT
ASSOCIATE IN APPLIED SCIENCE DEGREE
The Administrative Assistant program is designed for students with secretarial experience who wish to broaden their knowledge of business, intensify previously acquired secretarial skills, prepare for career advancement into managerial, supervisory, or administrative positions, and gain necessary background to sit for the Certified Professional Secretary Examination. Prerequisite: advanced secretarial skills.
Upon successful completion of this program, the student should be able to:

• Demonstrate effective communication skills in writing and speaking in a business environment.
• Apply math operations to solve fundamentals business problems.
• Utilize business and management terminology and principles to analyze problems and make decisions.
• Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation and word division rules to business correspondence.
• Apply principles of supervision and management in order to obtain maximum productivity from computerized systems in both traditional and automated offices, with appropriate emphasis on people, procedures and equipment.
• Transcribe from various kinds of original communication, such as handwritten copy, printed copy and voice-recorded dictation.
• Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
• Use word processing, spreadsheet, database, presentation and Internet skills to complete office tasks.
• Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
• Recognize the changing nature of technology and adapt to new equipment and procedures while retaining the most appropriate traditional office practices.
• Work independently, with, others or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes and work habits that contribute to organizational goals.
• Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
• Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
• Apply economic theory to analyze social, political, financial and business problems.
• Develop a marketing plan using the fundamental elements of the marketing mix.
• Apply the law to recognize legal implications of business and personal transactions.

**Required Program of Study**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Term</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS 105</td>
<td>Business English</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td><strong>11</strong></td>
</tr>
<tr>
<td><strong>Second Term</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGT 140</td>
<td>Administrative Office Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HUM -- **</td>
<td>Humanities Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Third Term</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>OCT 120</td>
<td>Machine Dictation and Transcription</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>-- -- **</td>
<td>Business Elective (see list below)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>9</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fourth Term</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC 105</td>
<td>Financial Accounting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS 200</td>
<td>Macroeconomics</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Fifth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 110</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 201</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>OCT 210</td>
<td>Speedwriting I</td>
<td>3</td>
</tr>
<tr>
<td>OCT 214</td>
<td>Word Processing II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Credit Hours Required for the Program</strong></td>
<td><strong>68</strong></td>
<td></td>
</tr>
</tbody>
</table>

The following courses qualify as a Business Elective: OCT 211, OCT 220, MGT 210 or any BUS or MGT course not listed in the program.

**ADMINISTRATIVE ASSISTANT**

**No new admission in this program at this time.**

**College Credit Certificate**

The Administrative Assistant certificate program is designed for students with secretarial experience who wish to broaden their knowledge of business, intensify previously acquired secretarial skills, prepare for career advancement into managerial, supervisory or administrative positions and gain necessary background to sit for the Certified Professional Secretary Examination. All course work may later be applied to an Associate in Applied Science degree, if desired. Prior secretarial experience is required for entry to this program.

Upon successful completion of this programs, the student should be able to:

• Utilize business and management principles to analyze problems and make decisions.
• Apply economic theory to analyze social, political, financial and business problems.
• Apply math operations to solve fundamentals business problems.
• Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation and word division rules to business correspondence.
• Use word processing, spreadsheet, database, presentation and Internet skills to complete office tasks.
• Apply principles of supervision and management in order to obtain maximum productivity from computerized systems in both traditional and automated offices, with appropriate emphasis on people, procedures and equipment.
• Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
• Demonstrate effective communications skills in writing and speaking in a business environment.
• Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
• Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
• Apply the law to recognize legal implications of business and personal transactions.
Required Program of Study

Summer
BUS 100 Introduction to Business 3
ORI 102 College Success Strategies 2
BUS 110 Business Mathematics 3
COM 121 English Composition 3

First Term
OFT 212 Office Procedures 3
OFT 213 Word Processing I 3
BUS 105 Business English 3

Second Term
ACC 105 Financial Accounting 3
MGT 140 Administrative Office Management 3
OFT 210 Speedwriting I 3
BUS 200 Macroeconomics 3
or
BUS 201 Microeconomics 3

Third Term
ACC 110 Managerial Accounting 3
BUS 106 Business Communications 3
BUS 230 Business Law 3

Total Credit Hours Required for the Certificate 41

ADVANCED SECRETARIAL SKILLS

No new admission in this program at this time.

College Credit Certificate

The Advanced Secretarial Skills certificate program is designed to provide graduates with the competencies necessary to obtain secretarial employment which requires higher-level skills. A student entering this program should possess keyboarding skills; a minimum speed of 50 wpm is recommended.

Upon successful completion of this program, the student should be able to:

• Demonstrate effective communication skills in writing and speaking in a business environment.
• Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation and word division rules to business correspondence.
• Use word processing, spreadsheet, database, presentation and Internet skills to complete office tasks.
• Apply math operations to solve fundamentals business problems.
• Apply principles of supervision and management in order to obtain maximum productivity from computerized systems in both traditional and automated offices, with appropriate emphasis on people, procedures and equipment.
• Develop speedwriting skills to take notes from oral dictation and produce mailable copy.
• Work independently, with others or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes and work habits that contribute to organizational goals.
• Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
• Transcribe from various kinds of original communication, such as handwritten copy, printed copy and voice-recorded dictation.
• Recognize the changing nature of technology and adapt to new equipment and procedures while retaining the most appropriate traditional office practices.

Required Program of Study

First Term
BUS 105 Business English 3
BUS 110 Business Mathematics 3
OFT 213 Word Processing I 3
ORI 102 College Success Strategies 2

Second Term
MGT 140 Administrative Office Management 3
OFT 214 Word Processing II 3
COM 121 English Composition 3
OFT 210 Speedwriting I 3

THIRD TERM
BUS 106 Business Communications 3
OFT 251 Word Processing Procedures 3

Total Credit Hours Required for the Certificate 32

ADVANCED SECRETARIAL SKILLS

No new admission in this program at this time.

Office Technology Diploma

The Advanced Secretarial Skills Diploma is designed to provide graduates with the competencies necessary to obtain secretarial employment which requires higher-level skills. A student entering this program should possess keyboarding skills; a minimum speed of 50 words per minute is recommended.

Upon successful completion of this program, the student should be able to:

• Use word processing, spreadsheet, database, presentation and Internet skills to complete office tasks.
• Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation and word division rules to business correspondence.
• Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
• Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
• Transcribe from various kinds of original communication, such as handwritten copy, printed copy and voice-recorded dictation.
• Work independently, with others or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes and work habits that contribute to organizational goals.
• Recognize the changing nature of technology and adapt to new equipment and procedures while retaining the most appropriate traditional office practices.

Required Program of Study

First Session
OFT 213 Word Processing I 3
BUS 105 Business English 3

Second Session
OFT 214 Word Processing II 3
OFT 210 Speedwriting I 3
Utilize a personal computer to design, save, and modify.

Apply math operations to solve fundamental business problems.

Compare and contrast economic systems as they relate to the

Describe various loan products.

Calculate product costs and break-even point for

Apply credit math and loan pricing principles.

Calculate product costs and break-even point for

Apply economic terminology and principles to the business

Describe various loan products.

Demonstrate effective communication skills in writing and speaking in a business environment.

General Education Requirements - 19 credits

Major Requirements

ACC 110 Managerial Accounting 3
BNK 100 Principles of Banking (1570) 3
BNK 105 Economics for Bankers (2310) 3
BNK 140 Accounting I (1000) 3
BNK 150 Consumer Lending (7008) 3
BNK 155 Commercial Lending (6350) 3
BNK 153 Microcomputer Applications in Banking (2090) 3
BNK 226 Law & Banking: Principles (3660) 3
BNK 228 Marketing for Bankers (7740) 3
BNK 230 Analyzing Financial Statements (6920) 3
BNK 242 Money & Banking (1350) 3
BUS 100 Introduction to Business 3
MGT 100 Principles of Management 3
--- --- Banking Electives** 6 42

**The following courses qualify as Banking Electives: ACC 210, BNK 115 (3670), BNK 120 (8250), BNK 125 (8325), BNK 150 (7008), BNK 155 (6350), BNK 210 (4310), BNK 220 (7110), BNK 222 (7820), MGT 200.

Total Credit Hours Required for the Program 61

BANKING TECHNOLOGY  

No new admission in this program at this time.

Associate in Applied Science Degree

This program is designed to prepare students for a career in a financial institution. Graduates of this program will have a well-rounded background in all areas of the banking industry. They will be prepared for positions such as branch managers, assistant branch managers, loan officers, mid-management level executives and as management trainees throughout different areas of a financial institution. For more information, contact the Banking Program Director of Education.

Upon successful completion of this program, the student should be able to:

- Demonstrate an awareness of how full-service commercial banking affects the economy, community, businesses and individuals.
- Apply economic terminology and principles to the business cycle and business organization.
- Compare and contrast economic systems as they relate to the fundamental concepts of supply and demand.
- Prepare financial statements in accordance with generally accepted accounting principles with an emphasis on the interpretation and analysis of the financial statement.
- Identify components of the consumer installment credit market.
- Describe various loan products.
- Trace the lending process.
- Apply credit math and loan pricing principles.
- Explain the functions of the loan interview and credit investigation.
- Describe how the borrower’s financing needs and business type affect the structuring of a loan.
- Utilize a personal computer to design, save, and modify database structures through the use of several software programs.
- Identify the sources and applications of banking law.
- Distinguish between torts and crimes and how they relate to banking situations.
- Describe real and personal properties and their application to banking.
- Develop and formulate a master marketing plan by interpreting consumer motivation and buying behavior through situation analysis focused upon market segment.
- Develop the skills necessary to conduct a comprehensive and effective financial analysis of a business borrower in order to assess repayment capacity.
- Associate the concept of money supply and the role the bank plays as a money creator and participant in the nation’s payment mechanism.
- Utilize business and management principles to analyze problems and make decisions.

Total Credit Hours Required for the Diploma 24

BANKING TECHNOLOGY  

No new admission in this program at this time.

College Credit Certificate

The Banking Technology certificate program is designed to provide students with skills that are needed to qualify for positions within the banking industry including tellers, head-tellers, customer service representatives, accounting clerks and credit administration clerks. All course work may later be applied to the Banking Technology A.A.S. degree.

Upon successful completion of this program, the student should be able to:

- Demonstrate an awareness of how full-service commercial banking affects the economy, community, businesses and individuals.
- Apply economic theory to analyze social, political, financial, and business problems.
- Prepare financial statements in accordance with generally accepted accounting principles with an emphasis on the interpretation and analysis of the financial statement.
- Identify components of the consumer installment credit market.
- Describe various loan products.
- Trace the lending process.
- Apply credit math and loan pricing principles.
- Explain the functions of the loan interview and credit investigation.
- Describe how the borrower’s financing needs and business type affect the structuring of a loan.
- Utilize a personal computer to design, save, and modify database structures through the use of several software programs.
• Identify the sources and applications of banking law.
• Distinguish between torts and crimes and how they relate to banking situations.
• Describe real and personal properties and their application to banking.
• Develop and formulate a master marketing plan by interpreting consumer motivation and buying behavior through situation analysis focused upon market segment. Develop the skills necessary to conduct a comprehensive and effective financial analysis of a business borrower in order to assess repayment capacity.
• Associate the concept of money supply and the role the bank plays as a money creator and participant in the nation's payment mechanism.
• Utilize business and management principles to analyze problems and make decisions.

**Required Program of Study**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 110</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BNK 100</td>
<td>Principles of Banking (1370)</td>
<td>3</td>
</tr>
<tr>
<td>BNK 105</td>
<td>Economics for Bankers (2310)</td>
<td>3</td>
</tr>
<tr>
<td>BNK 140</td>
<td>Accounting I (1000)</td>
<td>3</td>
</tr>
<tr>
<td>BNK 150</td>
<td>Consumer Lending (7008)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BNK 155 Commercial Lending (6350)</td>
<td>3</td>
</tr>
<tr>
<td>BNK 153</td>
<td>Microcomputer Applications in Banking (2090)</td>
<td>3</td>
</tr>
<tr>
<td>BNK 226</td>
<td>Law &amp; Banking: Principles (3660)</td>
<td>3</td>
</tr>
<tr>
<td>BNK 228</td>
<td>Marketing for Bankers (7740)</td>
<td>3</td>
</tr>
<tr>
<td>BNK 230</td>
<td>Analyzing Financial Statements (6920)</td>
<td>3</td>
</tr>
<tr>
<td>BNK 242</td>
<td>Money &amp; Banking (1350)</td>
<td>3</td>
</tr>
<tr>
<td>MGT 100</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for this Certificate: 33

**BANKING TECHNOLOGY**

**No New Admission in this Program at This Time.**

**Office Technology in Banking**

**College Credit Certificate**

The Banking Technology, Office Technology in Banking certificate is designed to provide students with skills needed to qualify for administrative, secretarial, and clerical positions in the banking industry.

Upon successful completion of this program, the student should be able to:

• Demonstrate an awareness of how full-service commercial banking affects the economy, community, businesses, and individuals.
• Demonstrate effective oral and written communication skills with an emphasis toward the business environment.
• Utilize a personal computer to design, save, and modify database structures through the use of several software programs.
• Apply math operations to solve fundamental business problems.
• Utilize business and management principles to analyze problems and make decisions.
• Apply principles of supervision to obtain maximum productivity from computerized systems in both traditional and automated offices, with appropriate emphasis on people, procedures, and equipment.
• Use word processing, spreadsheet, database, presentation, and Internet skills to complete office tasks.

**Required Program of Study**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 105</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

**BASIC CLERICAL SKILLS**

**No New Admission in this Program at This Time.**

**College Credit Certificate**

The Basic Clerical Skills certificate program is designed to provide graduates with the competencies necessary to obtain clerical employment which requires basic skills. The student may later apply all course work to an Associate in Applied Science degree, if desired.

Upon successful completion of this program, the students should be able to:

• Demonstrate effective communication skills in writing and speaking in a business environment.
• Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
• Demonstrate proficiency in keyboarding of business letters, memos, reports, and tables at a high level of speed and accuracy.
• Utilize a personal computer to prepare documents using word processing, spreadsheet, and database software and the Internet.
• Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
• Transcribe from various kinds of original communication, such as handwritten copy, printed copy, and voice-recorded dictation.
• Apply math operations to solve fundamental business problems.

**Required Program of Study**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 105</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 105</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
</tbody>
</table>

**Second Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
</tbody>
</table>
The Basic Secretarial Skills certificate program is designed to provide graduates with the competencies necessary to obtain secretarial employment which requires foundation-level skills. The student may later apply all course work to an Associate in Applied Science degree, if desired.

Upon successful completion of this program, the students should be able to:

• Demonstrate effective communication skills in writing and speaking in a business environment.
• Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
• Demonstrate proficiency in keyboarding of business letters, memos, reports, and tables at a high level of speed and accuracy.
• Utilize a personal computer to prepare documents using word processing, spreadsheet, and database software and the Internet.
• Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
• Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
• Transcribe from various kinds of original communication, such as handwritten copy, printed copy, and voice-recorded dictation.
• Apply math operations to solve fundamental business problems.

### Required Program of Study

#### First Term
- **BUS 105** Business English 3
- **BUS 110** Business Mathematics 3
- **OFT 110** Keyboarding I 3
- **ORI 102** College Success Strategies 2

#### Total Credit Hours Required for the Certificate
- 32

### BASIC SECRETARIAL SKILLS (120)

#### Office Technology Diploma

The Basic Secretarial Diploma is designed to provide graduates with the competencies necessary to obtain secretarial employment which requires foundation-level skills.

Upon successful completion of this program, the students should be able to:

• Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
• Demonstrate proficiency in keyboarding of business letters, memos, reports, and tables at a high degree of speed and accuracy.
• Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
• Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
• Transcribe from various kinds of original communication, such as handwritten copy, printed copy, and voice-recorded dictation.
• Utilize a personal computer to prepare documents using word processing, spreadsheet and database software and the Internet.

#### Required Program of Study

#### First Session
- **BUS 105** Business English 3
- **OFT 110** Keyboarding I 3

#### Total Credit Hours Required for the Certificate
- 12

#### Second Session
- **OFT 210** Speedwriting I 3

#### Required Program of Study

#### First Session
- **BUS 105** Business English 3
- **OFT 110** Keyboarding I 3

#### Total Credit Hours Required for the Certificate
- 6
Utilize a personal computer to prepare documents using word processing software.

Evaluate the internal control goals of various accounting information systems and recommend appropriate control plans to ensure the accomplishment of organizational goals.

Transfer to an accredited college or university.

Prepare payroll documents and related payroll tax returns.

Utilize business principles to analyze problems and make decisions.

Apply economic theory to analyze social, political, financial, and business problems.

Utilize a personal computer to prepare documents using word processing, spreadsheet, and database software and to perform basic navigation of the Internet.

Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.

Utilize business principles to analyze problems and make decisions.

Apply economic theory to analyze social, political, financial, and business problems.

Utilize a personal computer to prepare documents using word processing, spreadsheet, and database software and to perform basic navigation of the Internet.

Transfer to an accredited college or university.

Upon successful completion of this program, the student should be able to:

- Utilize a personal computer to prepare documents using word processing, spreadsheets, and database software and to perform basic navigation of the Internet.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Apply math operations to solve fundamental business problems.
- Utilize business management principles to analyze problems and make decisions.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
- Perform the steps in the accounting cycle both manually and using computerized general ledger software.
- Evaluate the internal control goals of various accounting information systems and recommend appropriate control plans to ensure the accomplishment of organizational goals.
- Prepare payroll documents and related payroll tax returns.

Required Program of Study

**First Term**
- ACC 105 Financial Accounting 3
- BUS 100 Introduction to Business 3
- BUS 110 Business Mathematics 3
- IFT 110 Microcomputer Applications 3
- ORI 102 College Success Strategies 2

**Second Term**
- ACC 110 Managerial Accounting 3
- COM 121 English Composition 3
- MGT 100 Principles of Management 3

**Third Term**
- ACC 125 Accounting Principles I 3
- ACC 120 Payroll Accounting 1
- ACC 220 Accounting Information Systems 3
- BUS 106 Business Communications 3

Total Credit Hours Required for the Certificate 33

**BUSINESS ADMINISTRATION TRANSFER**

**Associate in Arts Degree**

The Business Administration Transfer program is designed to prepare students to enter baccalaureate programs in Business Administration on the junior level.

Upon successful completion of this program, the student should be able to:

- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Utilize business principles to analyze problems and make decisions.
- Apply economic theory to analyze social, political, financial, and business problems.
- Utilize a personal computer to prepare documents using word processing, spreadsheet, and database software and to perform basic navigation of the Internet.
- Transfer to an accredited college or university.

**See General Education Requirements**

**Major Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105 Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 200 Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 201 Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110 Microcomputer Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

**Suggested Electives**

Courses selected as electives will depend upon the institution to which you will transfer. It is essential that you consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

Minimum Credit Hours Required for the Program 60

**BUSINESS EDUCATION TRANSFER**

**Associate in Arts Degree**

The Business Education Transfer program is designed to prepare students to enter baccalaureate programs in Business Education on the junior level.

Upon successful completion of this program, the student should be able to:

- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Utilize business principles to analyze problems and make decisions.
- Apply economic theory to analyze social, political, financial, and business problems.
- Utilize a personal computer to prepare documents using word processing, spreadsheet and database software and to perform basic navigation of the Internet.
- Transfer to an accredited college or university.

**See General Education Requirements**

**Major Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105 Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 200 Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 201 Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110 Microcomputer Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

**Suggested Electives**

Courses selected as electives will depend upon the institution to which you will transfer. It is essential that you consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

Minimum Credit Hours Required for the Program 60

**NOTE:** RETIRE

**No new admission in this program at this time.**
Courses selected as electives will depend upon the institution to which you will transfer. It is essential that you consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

Minimum Credit Hours Required for the Program 60

**BUSINESS MANAGEMENT**

**Management Concentration**

**Associate in Applied Science Degree**

The Business Management program is designed to prepare graduates for careers in management. Students who complete the program are prepared for employment as office managers, management level executives, and management trainees in programs such as those operated by banks, retail stores, and other types of business and industrial enterprises. Graduates will have had the opportunity to choose from a number of second-year courses to allow specialization.

Upon successful completion of this program, the student should be able to:

- Utilize business management principles to analyze problems and make decisions.
- Apply human resources management principles to analyze problems and make decisions concerning human resources.
- Apply supervision skills.
- Apply math operations to solve fundamental business problems.
- Utilize a personal computer to prepare documents using word processing, spreadsheet and database software, and to perform basic navigation of the Internet.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Apply economic theory to analyze social, political, financial, and business problems.
- Utilize financial tools and techniques to maximize a firm’s long-term value.
- Develop a marketing plan for a product, using the fundamental elements of the marketing mix.
- Apply the law to recognize potential legal implications of business and personal transactions.

**Required Program of Study**

**First Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110</td>
<td>Business Math</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>11</td>
</tr>
</tbody>
</table>

**Second Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>MAT 150</td>
<td>Foundation of Math</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>12</td>
</tr>
</tbody>
</table>

**Third Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 110</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fourth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 200</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
</tr>
<tr>
<td>MGT 200</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>12</td>
</tr>
</tbody>
</table>

**Fifth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 201</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 210</td>
<td>Supervisory Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>9</td>
</tr>
</tbody>
</table>

**Sixth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 210</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 220</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 230</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total (see list below)</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program 68

The following courses qualify as a Business Elective: ACC 220, ACC 230, BUS 210, IFT 120, MGT 220, MGT 230, MGT 240, MGT 250, MGT 255, MGT 260, MGT 290 with CAR 105, MGT 291. Your advisor may suggest and must approve other electives.

**BUSINESS MANAGEMENT**

**Human Resources Management Concentration**

**Associate in Applied Science Degree**

The Human Resources Management program is designed to prepare graduates for careers in human resources management. Students who complete the program are prepared for employment as assistants, generalists, and specialists in Human Resources departments, as well as benefits coordinators, training representatives, salary administrators, or employment representatives. Graduates will have had the opportunity to choose from a number of second-year courses to allow specialization.

Upon successful completion of the program, the student should be able to:

- Utilize business management principles to analyze problems and make decisions.
- Apply human resources management principles to analyze problems and make decisions concerning human resources.
- Design a system for the administration of wages and salaries.
- Apply supervision skills.
- Apply math operations to solve fundamental business problems.
- Utilize a personal computer to prepare documents using word processing, spreadsheet and database software and to perform basic navigation of the Internet.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Apply economic theory to analyze social, political, financial, and business problems.
Utilize financial tools and techniques to maximize a firm’s long-term value.

Develop a marketing plan for a product, using the fundamental elements of the marketing mix.

Apply the law to recognize legal implications of business and personal transactions.

**Required Program of Study**

**First Term**
- BUS 100 Introduction to Business 3
- BUS 110 Business Math 3
- IFT 110 Microcomputer Applications 3
- ORI 102 College Success Strategies 2

**Second Term**
- ACC 105 Financial Accounting 3
- COM 121 English Composition 3
- MAT 150 Foundation of Math 3
- SOC 125 Individual & Society 3

**Third Term**
- ACC 110 Managerial Accounting 3
- BUS 106 Business Communications 3
- HUM - - Humanities Elective 3
- MGT 100 Principles of Management 3

**Fourth Term**
- BUS 200 Macroeconomics 3
- ENV 130 The Environment 3
- MGT 200 Human Resources Management 3
- MGT 240 Compensation Management 3
- MGT 210 Supervisory Management 3

**Fifth Term**
- BUS 201 Microeconomics 3
- MGT 210 Supervisory Management 3

**Sixth Term**
- ACC 210 Financial Management 3
- BUS 220 Principles of Marketing 3
- BUS 230 Business Law 3
- MGT 250 Operations Management I 3

Total Credit Hours Required for the Program 68

The following courses qualify as a Business Elective: ACC 220, ACC 230, BUS 210, IFT 120, MGT 220, MGT 230, MGT 250, MGT 255, MGT 260, MGT 290 with CAR 105, MGT 291. Your advisor may suggest and must approve other electives.

**BUSINESS MANAGEMENT**

**Operations Management Concentration**

**NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.**

**Associate in Applied Science Degree**

The Operations Management concentration is designed to prepare graduates to assume management positions in an operations environment. Operations managers perform a variety of duties such as directing and training employees, setting and maintaining work schedules, and communicating and interpreting company policy to employees. They are responsible for equipment, products/services, and inventory. Graduates are prepared for employment in various industries and departments as shop supervisors, industrial supervisors, management trainees, work methods technicians, quality technicians, production planners or schedulers, and operations technicians.

Upon successful completion of the program, the student should be able to:

- Utilize business management principles to analyze problems and make decisions.
- Apply human resources management principles to analyze problems and make decisions concerning human resources.
- Design a system for the administration of wages and salaries.
- Apply supervision skills.
- Apply the principles and methods of managing the operations function within an organization.
- Plan and design manufacturing and service facilities utilizing analytical models and fact-based decision making.
- Apply math operations to solve fundamental business problems.
- Utilize a personal computer to prepare documents using word processing, spreadsheet, and database software and to perform basic navigation of the Internet.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Apply economic theory to analyze social, political, financial, and business problems.
- Utilize financial tools and techniques to maximize a firm’s long-term value.
- Develop a marketing plan for a product, using the fundamental elements of the marketing mix.

**Required Program of Study**

**First Term**
- BUS 100 Introduction to Business 3
- BUS 110 Business Math 3
- IFT 110 Microcomputer Applications 3
- ORI 102 College Success Strategies 2

**Second Term**
- ACC 105 Financial Accounting 3
- COM 121 English Composition 3
- MAT 150 Foundation of Math 3
- SOC 125 Individual & Society 3

**Third Term**
- ACC 110 Managerial Accounting 3
- BUS 106 Business Communications 3
- MGT 100 Principles of Management 3
- MGT 210 Supervisory Management 3

**Fourth Term**
- BUS 200 Macroeconomics 3
- ENV 130 The Environment 3
- MGT 200 Human Resources Management 3
- MGT 250 Operations Management I 3

**Fifth Term**
- BUS 201 Microeconomics 3
- MGT 255 Operations Management II 3

**Sixth Term**
- ACC 210 Financial Management 3
- BUS 220 Principles of Marketing 3
- MGT 260 Facilities Planning and Design 3

Total Credit Hours Required for the Program 68
### BUSINESS MANAGEMENT

**Retail Management Concentration**

**NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.**

**Associate in Applied Science Degree**

The Retail Management program is designed to prepare graduates for careers in the field of retailing. Students who complete the program are prepared for positions of middle-level management, such as department manager, supervisor, buyer, sales manager, distribution manager, merchandise manager, wholesaler, credit manager, marketing manager, or assistant manager/manager of a retail store. The program will also upgrade the skills of those now employed in the field. Students will have the opportunity to choose from a number of second-year courses to allow specialization.

Upon successful completion of the program, the student should be able to:

- Utilize business management principles to analyze problems and make decisions.
- Apply human resources management principles to analyze problems and make decisions concerning human resources.
- Apply supervision skills.
- Apply the methods and tools of modern retail management.
- Utilize the methods and tools of sales.
- Apply math operations to solve fundamental business problems.
- Utilize a personal computer to prepare documents using word processing, spreadsheet, and database software and to perform basic navigation of the Internet.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Apply economic theory to analyze social, political, financial, and business problems.
- Utilize financial tools and techniques to maximize a firm’s long-term value.
- Develop a marketing plan for a product, using the fundamental elements of the marketing mix.
- Apply the law to recognize legal implications of business and personal transactions.

#### Required Program of Study

<table>
<thead>
<tr>
<th>First Term</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 110</td>
<td>Business Math</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong> 11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Term</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>MAT 150</td>
<td>Foundation of Math</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong> 12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Term</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 110</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HUM - -</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>MGT 100</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong> 12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Term</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 200</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
</tr>
<tr>
<td>MGT 200</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong> 12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fifth Term</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 201</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 210</td>
<td>Principles of Sales</td>
<td>3</td>
</tr>
<tr>
<td>MGT 210</td>
<td>Supervisory Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong> 9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sixth Term</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 210</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 220</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 230</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>MGT 220</td>
<td>Retail Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong> 12</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program: 68

### BUSINESS MANAGEMENT

**Small Business Management Concentration**

**NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.**

**Associate in Applied Science Degree**

The Small Business Management program is designed to prepare graduates for careers in small business management. Students who complete the program are prepared for employment as managers and assistant managers of a variety of small businesses; the entrepreneur will be equipped with the background and skills necessary to operate the business endeavor. Students will have the opportunity to choose from a number of second-year courses to allow the pursuit of special interests.

Upon successful completion of the program, the student should be able to:

- Utilize business management principles to analyze problems and make decisions.
- Apply human resources management principles to analyze problems and make decisions concerning human resources.
- Apply supervision skills.
- Develop and implement a plan for starting a new small business.
- Apply math operations to solve fundamental business problems.
- Utilize a personal computer to prepare documents using word processing, spreadsheet, and database software and to perform basic navigation of the Internet.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
- Prepare tax returns and conduct research utilizing the Internal Revenue Code.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Apply economic theory to analyze social, political, financial, and business problems.
- Utilize financial tools and techniques to maximize a firm’s long-term value.
- Develop a marketing plan for a product, using the fundamental elements of the marketing mix.
- Apply the law to recognize legal implications of business and personal transactions.
Required Program of Study

First Term

- BUS 100 Introduction to Business 3
- BUS 110 Business Math 3
- IFT 110 Microcomputer Applications 3
- ORI 102 College Success Strategies 2

Total Credit Hours Required for the Program 11

Second Term

- ACC 105 Financial Accounting 3
- COM 121 English Composition 3
- MAT 150 Foundation of Math 3
- SOC 125 Individual & Society 3

Total Credit Hours Required for the Program 12

Third Term

- ACC 110 Managerial Accounting 3
- BUS 106 Business Communications 3
- HUM - Humanities Elective 3
- MGT 100 Principles of Management 3

Total Credit Hours Required for the Program 12

Fourth Term

- BUS 200 Macroeconomics 3
- ENV 130 The Environment 3
- MGT 200 Human Resources Management 3
- -- -- Business Elective 3

Total Credit Hours Required for the Certificate 38

Fifth Term

- ACC 230 Federal Taxes 3
- BUS 201 Microeconomics 3
- MGT 210 Supervisory Management 3

Total Credit Hours Required for the Program 9

Sixth Term

- ACC 210 Financial Management 3
- BUS 220 Principles of Marketing 3
- BUS 230 Business Law 3
- MGT 230 Small Business Management 3

Total Credit Hours Required for the Program 12

Total Credit Hours Required for the Certificate 68

BUSINESS MANAGEMENT

College Credit Certificate

The Business Management certificate program is designed to develop the skills necessary to implement and monitor effective business management practice. The knowledge gained from these courses will be helpful in entry-level management and management trainee positions. All course work may later be applied to an Associate in Applied Science degree if the student desires.

Upon successful completion of the program, the student should be able to:
- Utilize business management principles to analyze problems and make decisions.
- Apply human resources management principles to analyze problems and make decisions concerning human resources.
- Apply supervision skills.
- Utilize a personal computer to prepare documents using word processing, spreadsheet and database software and to perform basic navigation of the Internet.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Calculate product costs and break-even point for manufacturing companies and prepare operational budgets using both variable and absorption costing methods.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Develop a marketing plan for a product, using the fundamental elements of the marketing mix.
- Apply the law to recognize legal implications of business and personal transactions.

REQUIRED PROGRAM OF STUDY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 110</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUS 220</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 230</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MAT 150</td>
<td>Foundation of Math</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>MGT 100</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 200</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 210</td>
<td>Supervisory Management</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Business Elective</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Credit Hours Required for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>the Certificate</td>
<td>38</td>
</tr>
</tbody>
</table>

Students should consult with an advisor to assure proper sequencing of courses.

The following courses qualify as a Business Elective: ACC 220, ACC 230, BUS 210, IFT 120, MGT 220, MGT 230, MGT 240, MGT 250, MGT 255, MGT 260, MGT 290 with CAR 105, MGT 291. Your advisor may suggest and must approve other electives.

CHEMISTRY TRANSFER PROGRAM

NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.

Associate in Arts Degree

This program is designed to prepare the student to enter a baccalaureate program in chemistry on the junior level.

Upon successful completion of this program, the student should be able to:
- Demonstrate effective oral and written communication skills in the expression of scientific concepts.
- Apply mathematical methods to scientific problems.
- Apply basic scientific principles and concepts in the solution of problems and laboratory experiments.
- Demonstrate an ability to collect, organize, analyze, evaluate and present data.
- Demonstrate an ability to retrieve data and search relevant literature.
- Demonstrate the ability to use specific scientific apparatus and instrumentation.
- Explain basic scientific principles related to the behavior of matter at the atomic and macroscopic levels in chemical systems.
- Transfer to an accredited college or university.

See General Education Requirements

Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 150</td>
<td>Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 155</td>
<td>Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 220</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MAT 221</td>
<td>Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>

Suggested Electives

Courses selected as electives will depend upon the transfer institution. It is essential that you meet with a Faculty Advisor for assistance in selecting courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.
BIO 150 MAT 210
BIO 155 MAT 222
BIO 280 PHY 240
CHE 220 PHY 245
ENV 170

Minimum Credit Hours Required for the Program 60

COMMUNICATIONS TRANSFER

Associate in Arts Degree
The Communications Transfer Program prepares students for transfer to a four-year college or university. It offers students in communications, journalism, public relations and visual communications a broad base of courses and experiences as a foundation for future specialization. The program also focuses on writing for new and emerging media with special attention to online media.

Upon successful completion of this program, the student should be able to:
- Listen, speak, read, write and make presentations on a college level.
- Communication clearly and ethically.
- Write for a variety of purposes and audiences in commercial, technical and artistic contexts.
- Explore mass media through their evolution to the present condition.
- Write with diverse communication technologies such as desktop publishing programs and online writing programs.
- Apply critical thinking, problem-solving and study strategies.
- Employ appropriate methods of research by accessing and evaluating information from a variety of credible sources.
- Transfer to an accredited college or university.

See General Education Requirements

Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 161</td>
<td>Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>COM 163</td>
<td>Writing for the Media</td>
<td>3</td>
</tr>
<tr>
<td>COM 165</td>
<td>Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>COM 201</td>
<td>Introduction to Editing</td>
<td>3</td>
</tr>
<tr>
<td>COM 141</td>
<td>Technical Writing</td>
<td>(3)</td>
</tr>
<tr>
<td>COM 205</td>
<td>Writing for On-line Environments</td>
<td>(3)</td>
</tr>
</tbody>
</table>

Suggested Electives
Courses selected as electives will depend upon the transfer institution. It is essential that students consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

Since Humanities courses place special emphasis on reading, writing and other language and artistic skills, all courses in Humanities (HUM) are strongly recommended for this program.

Additional courses recommended for the Communications Transfer major include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 140</td>
<td>POS 130</td>
<td></td>
</tr>
<tr>
<td>ANT 200*</td>
<td>POS 135*</td>
<td></td>
</tr>
<tr>
<td>BUS 106*</td>
<td>PSY 120*</td>
<td></td>
</tr>
<tr>
<td>IFT 110*</td>
<td>SOC 120</td>
<td></td>
</tr>
<tr>
<td>COM 151*</td>
<td>SOC 125</td>
<td></td>
</tr>
<tr>
<td>HIS 115</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Credit Hours Required for the Program 60

*Strongly recommended.

CRIMINAL JUSTICE

Law Enforcement
Associate in Applied Science Degree
This program is designed to prepare students to work in the field of law enforcement. Law enforcement practitioners demonstrate an understanding of the law enforcement and criminal justice system, apply principles of law enforcement operation, learn about the collection and presentation of evidence and technologies utilized in the field, practice the techniques and management of patrol operations, and demonstrate the understanding and application of criminal law. Graduates are prepared for employment as patrolman, police officer, state trooper, deputy sheriff, youth detention officer, customs inspector, immigration detention officer, loss prevention investigator and claims investigator.

Upon successful completion of this program, the student should be able to:
- Discuss a comprehensive overview of the criminal justice system with focuses on crime in America, police process, courts and punishment, the prison system, and contemporary topics in law enforcement.
- Apply the basic structure of criminal law, culpability, use of force, search and seizure, the elements of crime, preparation of probable cause and formal charges and knowledge of the Pennsylvania Crime Code.
- Describe the judicial process and its relationship to the rules of criminal procedure as it pertains to the United States and Commonwealth of Pennsylvania constitutions.
- Identify and apply legal procedures for the service of search and arrest warrants, interrogation of defendants, and prosecution of cases.
- Explain crime and criminological theories, analyzing criminal justice process, including the role of police, the criminal courts, the probation officer, correctional services, and the reentry of the offender into society.
- Discuss an overview of the criminal justice system, the responsibilities of each component of the system, and the interaction among the various agencies.
- Explain the importance of public services need for progressive community interaction skills of positive interpersonal relations based on the development of rapport through understanding, respect, empathy, planning and research with representatives of schools, social agencies, news media, politicians, political activists, and the community at large.
- Evaluate, contrast, and discuss the strengths and weaknesses of varying types of law enforcement management styles and administrative requirements.
- Employ law enforcement management skills and discuss delegation, decision-making, problem-solving, commendations, discipline, responding to community needs, evaluating law enforcement reports, allocation of staff, scheduling and acquisition of assets.
- Identify, discuss, and contrast the methods used in interviewing witnesses and victims, interrogating suspects in order to obtain valid confessions through establishing rapport, perceiving body language and obvious attempts at deception, use of the polygraph, and techniques for verbally disarming the interviewee.
- Describe how the criminal justice system responds to the juvenile offender in terms of historical perspectives and current practices for interview, arrest, detention, and diversion.
Required Program of Study

First Term
ORI 102 College Success Strategies 2
LAW 135 Introduction to Criminal Justice 3
COM 121 English Composition 3
SST 110 Information Technology for Social Sciences 3

Second Term
LAW 140 Criminal Law 3
SOC 125 The Individual and Society 3
PSY 120 Interpersonal Relations & Communication 2

Third Term
PSY 130 General Psychology 3
LAW 150 Legal Procedures 3
LAW 255 Law Enforcement & Community Relations 2

Fourth Term
COM 141 Technical Writing 3
MAT 150 Foundations of Math 3
LAW 210 Law Enforcement Management I 3
LAW 230 Interviewing & Interrogation Skills 2

Fifth Term
LAW 250 Criminal Investigation 3
LAW 185 Criminology 3
- - - Elective (Recommend: SOC 225, LAW 270, PSY 230, or SOC 210) 2

Sixth Term
ENV 130 The Environment 3
LAW 280 Law Enforcement Management II 3
LAW 285 Juvenile & Domestic Law 3
HUM - - Humanities Elective (see page 31) 3

Total Credit Hours Required for the Program 62

Graduates of Pennsylvania Municipal Police Academies (Act 120) are eligible for articulation of up to 15 credit hours into the required courses for the A.A.S. degree in Law Enforcement. For further information, contact the Program Coordinator.

CULINARY ARTS (Certified Cook)
College Credit Certificate
This Culinary Arts program prepares students to become certified cooks. It is designed to prepare students to take the national competency test administered by the American Culinary Federation (ACF). The program also prepares students to take the ServeSafe certification examination. * Please refer to selective admissions procedures

Upon successful completion of the program, the student should be able to:
- Utilize a personal computer to prepare documents using word processing, spreadsheet and database software and to perform basic navigation of the Internet.
- Apply the fundamental health and safety principles of nutrition.
- Safely use hand tools and equipment in a Food service environment.
- Apply skills in the preparation of salads, dressings, dips, sandwiches, and proper set up of work stations.
- Apply skills in production of Vegetables, and Fruits.
- Prepare Meats, Poultry, and Seafood in a variety of cooking techniques.
- Prepare eggs in a variety of styles, as well as breakfast meats, quick breads, and starches.
- Apply knowledge of ingredients, and mixing methods for a variety of baked goods.
- Produce frozen desserts, tarts, fruit desserts, decorated cakes, and merengues.
- Prepare aspics, forcemeats, pates, mousse, and marinades for use as decoration as well as consumption.
- Apply entry level skills in menu design, food cost, labor cost, and purchasing fundamentals.
- Apply the use of HACCP (Hazard Analysis-Critical Control Point) as an everyday occurrence in food production.

Required Program of Study
First Year
Fall Term
CUL 101 Basic Food Preparation and Safety 4
IFT 110 Microcomputer Applications 3
ORI 102 College Success Strategies 2

Winter Term
CUL 111 Introduction to Food Production 4

Spring Term
CUL 125 Food Preparation Theory 4
HEA 119 Personal Nutrition 1

Summer Term
CUL 215 Breakfast Cookery 3
CUL 235 Professional Baking 3

Second Year
Fall Term
CUL 201 Food Preparation Practicum 3

Winter Term
CUL 240 Garde` Manger 3
PSY 120 Interpersonal Relations & Communications 3

Spring Term
CUL 220 Food Service Sanitation 2
CUL 255 Food Preparation Practicum 3

Total Credit Hours Required for the Program 38

CULINARY ARTS
Associate in Applied Science Degree
The Culinary Arts program is designed to prepare students for positions as first-line supervisors and managers in the growing food service industry. Students who complete the program learn different styles and techniques for ordering, preparing, and serving food, planning menus and managing food service organizations. The program also prepares students to take the ServeSafe certification examination. College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools. Please refer to the Selective Admissions Procedures.

Upon successful completion of the program, the student should be able to:
- Utilize business and management principles to analyze problems and make decisions.
- Apply math operations to solve fundamental business problems.
- Utilize a personal computer to prepare documents using word processing, spreadsheet and database software and to perform basic navigation of the Internet.
• Apply the fundamental health and safety principles of nutrition.
• Safely use hand tools and equipment in a Food service environment.
• Apply skills in the preparation of salads, dressings, dips, sandwiches, and proper set up of work stations.
• Apply skills in production of Vegetables, and Fruits.
• Prepare Meats, Poultry, and Seafood in a variety of cooking techniques.
• Prepare eggs in a variety of styles, as well as breakfast meats, quick breads, and starches.
• Apply knowledge of ingredients, and mixing methods for a variety of baked goods.
• Produce frozen desserts, tarts, fruit desserts, decorated cakes, and merengues.
• Prepare aspics, forcemeats, pates, mousse, and marinades for use as decoration as well as consumption.
• Apply entry level skills in menu design, food cost, labor cost, and purchasing fundamentals.
• Apply the use of HACCP (Hazard Analysis-Critical Control Point) as an everyday occurrence in food production.

**EARLY CHILDHOOD DIRECTOR**

**College Credit Certificate**

The Early Childhood Director certificate program is designed to prepare graduates for administrative work in Early Childhood settings. Emphasis is placed on the unique role of the Early Childhood Program director and the education of young children. This program is designed for students with a BA/BS or AA/AAS in other fields and wish to work as Early Childhood Directors.

Upon successful completion of this program, the student should be able to:

• Plan and set up an environment designed to support and encourage the development of the creative process in inclusive early care and education settings.
• Analyze and relate historical, social, economic, and philosophic bases for current practice and trends in early childhood education
• Develop and implement health, safety, and nutrition policies that comply with regulatory standards.
• Apply knowledge of infant/toddler development including the unique program needs to develop age appropriate curriculum and environment.
• Evaluate the impact of socioeconomic issues, issues of attachment and family structures on the development of the child.
• Demonstrate managerial and supervisor skills required for day to day operations of early care and education settings.
• Evaluate the role of leadership and advocacy for public policy issues related to children and their families.
• Utilize the Code of Ethics for Early Childhood Education to demonstrate the development of a professional attitude.
• Apply knowledge of communication skills in relationship to organizational management and leadership.

**Required Program of Study**

**First Year**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Term</td>
<td>CUL 101</td>
<td>Basic Food Preparation and Safety</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td>Winter Term</td>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COM 141</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CUL 111</td>
<td>Introduction to Food Production</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>10</strong></td>
</tr>
<tr>
<td>Spring Term</td>
<td>CUL 125</td>
<td>Food Preparation Theory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>HEA 119</td>
<td>Personal Nutrition</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MGT 100</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>8</strong></td>
</tr>
<tr>
<td>Summer Term</td>
<td>CUL 215</td>
<td>Breakfast Cookery</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CUL 235</td>
<td>Professional Baking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td>Fall Term</td>
<td>BUS 110</td>
<td>Business Math</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CUL 201</td>
<td>Food Preparation Practicum</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SOC 125</td>
<td>Individual &amp; Society</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
<tr>
<td>Winter Term</td>
<td>CUL 240</td>
<td>Garde` Manger</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSY 120</td>
<td>Interpersonal Relations &amp; Communications</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
<tr>
<td>Spring Term</td>
<td>CUL 220</td>
<td>Food Service Sanitation</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CUL 255</td>
<td>Advanced Food Preparation Practicum</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HUM -</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

| Total Credit Hours Required for the Program | **62** |

**Second Year**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Term</td>
<td>ECE 115</td>
<td>Creative Art for the Developing Child</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECE 125</td>
<td>Intro to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECE 229</td>
<td>Childcare Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
<tr>
<td>Second Term</td>
<td>ECE 230</td>
<td>Childcare Administration</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSY 115</td>
<td>Modern Parenting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SST 110</td>
<td>Information Technology for Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
<tr>
<td>Third Term</td>
<td>ECE 227</td>
<td>Infant/Toddler Care &amp; Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECE 240</td>
<td>School-Age Childcare</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECE 290</td>
<td>Cooperative Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SOC 120</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

| Total Credit Hours Required for the Certificate | **30** |

**EARLY CHILDHOOD EDUCATION TEACHING**

**Associate in Applied Science Degree**

The Teaching option of the Early Childhood Education program is intended to prepare graduates to function as teachers’ assistants or aides in preschool agencies, institutions and other organizations concerned with young children. Graduates may seek employment opportunities with headstart, day care centers, private pre-schools, and kindergartens. Graduates with two years of experience may also be employed as a teacher in child care centers licensed under the Department of Welfare. Students
entering this curriculum may find it necessary to attend the summer sessions to fulfill their degree requirements within two years. **College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.**

Upon successful completion of this program, the student should be able to:

- Plan and set up an environment designed to support and encourage the development of the creative process in inclusive early care and education settings.
- Employ appropriate, observable assessment and behavior guidance techniques in inclusive early care and education settings.
- Analyze and relate historical, social, economic, and philosophic bases for current practice and trends in early childhood education.
- Develop and implement health, safety, and nutrition policies that comply with regulatory standards.
- Apply knowledge of early childhood curriculum and child development to plan, adapt, and implement a comprehensive curriculum in early care and education settings.
- Apply knowledge of infant/toddler development including the unique program needs to develop age appropriate curriculum and environment.
- Evaluate the impact of socioeconomic issues and issues of attachment and family structures on the development of the child.
- Demonstrate managerial and supervisory skills required for day-to-day operations of early care and education settings.
- Utilize the Code of Ethics for Early Childhood Education to demonstrate the development of a professional attitude.
- Utilize effective communication skills with children, colleagues, supervisors, and parents.

**Required Program of Study**

**First Term**
- ORI 102 College Success Strategies 2
- ECE 115 Creative Art for the Developing Child 3
- ECE 140 Health, Safety and Nutrition in Early Childhood Education 3
- COM 121 English Composition 3

**Second Term**
- ECE 125 Intro to Early Childhood Education 3
- PSY 130 General Psychology 3
- COM 131 Composition and Literature 3
- or
- COM 141 Technical Writing 3
- SOC 125 Individual and Society 3

**Third Term**
- ECE 120 Observation & Interpretation of Child Behavior 3
- PSY 210 Child Psychology 3
- PSY 120 Interpersonal Relations & Communications 3
- ECE 150 Early Childhood Education Practicum I 3

**Fourth Term**
- ECE 220 Curriculum Development & Instructional Materials 3
- EDU 220 Multicultural Education 3
- ENV 130 The Environment 3
- HUM - - - Humanities Elective 3

**Fifth Term**
- ECE 222 Language Arts for Early Childhood 3

**Sixth Term**
- PSY 216 Psychology of the Exceptional Child 3
- ECE - - - Elective 3
- ECE 250 Early Childhood Practicum II 3

**Total Credit Hours Required for the Program** 68

**EARLY CHILDHOOD MANAGEMENT**

**Associate in Applied Science Degree**

This Management option of the Early Childhood Education program is designed to prepare graduates for administrative work in programs for pre-school age children. Increased emphasis is being placed upon the education of young children. Graduates may seek employment as supervisors or managers with private programs or governmentally funded programs. Students entering this curriculum may find it necessary to attend the summer sessions to fulfill their degree requirements within two years.

Upon successful completion of this program, the student should be able to:

- Plan and set up an environment designed to support and encourage the development of the creative process in inclusive early care and education settings.
- Employ appropriate, observable assessment and behavior guidance techniques in inclusive early care and education settings.
- Analyze and relate historical, social, economic, and philosophic bases for current practice and trends in early childhood education.
- Develop and implement health, safety, and nutrition policies that comply with regulatory standards.
- Apply knowledge of early childhood curriculum and child development to plan, adapt, and implement a comprehensive curriculum in early care and education settings.
- Apply knowledge of infant/toddler development including the unique program needs to develop age appropriate curriculum and environment.
- Evaluate the impact of socioeconomic issues, issues of attachment and family structures on the development of the child.
- Demonstrate managerial and supervisory skills required for day-to-day operations of early care and education settings.
- Evaluate the role of leadership and advocacy for public policy issues related to children and families.
- Utilize the Code of Ethics for Early Childhood Education to demonstrate the development of a professional attitude.
- Apply knowledge of communication skills in relationship to organizational management and leadership.

**Required Program of Study**

**First Term**
- ORI 102 College Success Strategies 2
- ECE 115 Creative Art for the Developing Child 3
- PSY 130 General Psychology 3
- COM 121 English Composition 3

**Second Term**
- ECE 125 Intro to Early Childhood Education 3
- PSY 115 Modern Parenting 3

**Total Credit Hours Required for the Program** 68
EDUCATIONAL TECHNOLOGY

NO NEW ADMISSIONS IN THIS PROGRAM AT THIS TIME.

Associate in Applied Science Degree

The Educational Technology program is designed to prepare graduates for a career working with teachers and students in environments that are rich in educational technology. Participants will learn about laserdisc, CD-ROM, computer applications, the internet, issues, trends, and other areas of educational technology.

Upon successful completion of this program, the student should be able to:
• Apply ethical choices and analyze social issues related to educational technology.
• Utilize resources for keeping current with issues and trends in educational technology.
• Employ advanced principles of instructional design.
• Evaluate complex educational software.
• Demonstrate ability to install and use advanced educational technology tools.
• Apply telecommunications for educational purposes.
• Utilize multimedia hardware, software, and applications.
• Create complex multimedia applications.
• Assist with educational technology installation, application, and problem resolution.
• Develop a plan for life cycle budgeting.
• Create procedures for resource management.

Required Program of Study

First Term
ORI 102 College Success Strategies 2
COM 121 English Composition 3
SOC 125 Individual & Society 3
SST 110 Information Technology for the Social Sciences 3

Total Credit Hours Required for the Program 64
EducatiOn transfEr
Associate in Arts Degree
This program is designed to prepare the student to enter a baccalaureate program in Elementary Education/Secondary Education on the junior level.

See General Education Requirements

Elementary Education Concentration

Upon successful completion of this program, the student should be able to:
• Describe the multidimensional aspects of classroom teaching in public and private school systems.
• Analyze and relate historical, social, economic, and philosophic bases for current practice and trends in education.
• Cite Pennsylvania teaching certification requirements for chosen areas of certification.
• Use Interstate New Teacher Assessment and Support Consortium (INTASC) standards for beginning teachers to begin to develop a standards-based portfolio.
• Apply knowledge of the teaching/learning process.
• Evaluate the influences of cultural diversity on teachers, students, and school systems.
• Analyze the impact of a variety of learning styles for teachers, students, and school systems.
• Describe the impact of the Individuals with Disabilities Education Act (IDEA) for teachers, students, parents, and school systems.
• Apply knowledge of adolescent development including meeting the unique needs of students in planning for instruction.
• Demonstrate effective communication skills in group and individual situations.
• Transfer to an accredited college or university in education.

Major Requirements
EDU 130 Foundations of Education 3
EDU 220 Multicultural Education 3
PSY 120 Interpersonal Relations & Communication 3
PSY 210 Child Psychology 3
PSY 240 Educational Psychology 3

Suggested Electives
* A minimum of 15 ECE credits are needed if students are seeking work in child care centers licensed by the Department of Public Welfare.
ANT 135 ECE 220* HIS 125 SOC 220
ANT 140 ECE 222* POS 135 SOC 225
COM 151 GEO 101 PSY 216* SOC 230
ECE 115* HIS 110 SOC 125 SPE 100
ECE 120* HIS 115 SOC 130*
ECE 125* HIS 120 SOC 210

Students who are planning to transfer to a dual certification in Early Childhood/Elementary Education should consult with the institution to which they will transfer.

Secondary Education Concentration

Upon successful completion of this program, the student should be able to:
• Describe the multidimensional aspects of classroom teaching in public and private school systems.
• Analyze and relate historical, social, economic, and philosophic bases for current practice and trends in education.
• Cite Pennsylvania teaching certification requirements for chosen areas of certification.
• Use Interstate New Teacher Assessment and Support Consortium (INTASC) standards for beginning teachers to begin to develop a standards-based portfolio.
• Apply knowledge of the teaching/learning process.
• Evaluate the influences of cultural diversity on teachers, students, and school systems.
• Analyze the impact of a variety of learning styles for teachers, students, and school systems.
• Describe the impact of the Individuals with Disabilities Education Act (IDEA) for teachers, students, parents, and school systems.
• Apply knowledge of adolescent development including meeting the unique needs of students in planning for instruction.

Suggested Electives
Courses selected as electives will depend upon the institution to which you will transfer. It is essential that students consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.
ANT 135 HIS 115 PSY 216* SOC 220
ANT 140 HIS 120 SOC 125 SOC 225
COM 151 HIS 125 SOC 130* SOC 230
GEO 101 POS 135 SOC 210 SPE 100
HIS 110
*strongly recommended

Minimum Credit Hours Required for the Program 60

Special Education Concentration

Upon successful completion of this program, the student should be able to:
• Describe the multidimensional aspects of classroom teaching in public and private school systems.
• Analyze and relate historical, social, economic, and philosophic bases for current practice and trends in education.
• Cite Pennsylvania teaching certification requirements for chosen areas of certification.
• Use Interstate New Teacher Assessment and Support Consortium (INTASC) standards for beginning teachers to begin to develop a standards-based portfolio.
• Apply knowledge of the teaching/learning process.
• Evaluate the influences of cultural diversity on teachers, students, and school systems.
• Analyze the impact of a variety of learning styles for teachers, students, and school systems.
• Describe the impact of the Individuals with Disabilities Education Act (IDEA) for teachers, students, parents, and school systems.
• Apply knowledge of child development including meeting the unique needs of students in planning for instruction.
• Apply knowledge of adolescent development including meeting the unique needs of students in planning for instruction.
• Demonstrate effective communication skills in group and individual situations.
• Transfer to an accredited college or university in education.

**Major Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 130</td>
<td>Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>PSY 216</td>
<td>Psychology of the Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>SPE 100</td>
<td>Introduction to Special Education</td>
<td>3</td>
</tr>
<tr>
<td>PSY 240</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDU 220</td>
<td>Multicultural Education</td>
<td>3</td>
</tr>
</tbody>
</table>

**Suggested Electives**

Courses selected as electives will depend upon the institution to which you will transfer. It is essential that students consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of the students to meet with an admissions representative from the four-year institution to determine its transfer policies.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 135</td>
<td>ECE 220* SPE 220 SOC 130*</td>
<td></td>
</tr>
<tr>
<td>ANT 140</td>
<td>ECE 222* HIS 125 SOC 210</td>
<td></td>
</tr>
<tr>
<td>COM 151</td>
<td>GEO 101 HMS 250 SOC 220</td>
<td></td>
</tr>
<tr>
<td>ECE 115*</td>
<td>HIS 110 POS 135 SOC 225</td>
<td></td>
</tr>
<tr>
<td>ECE 120*</td>
<td>HIS 115 PSY 120 SOC 230</td>
<td></td>
</tr>
<tr>
<td>ECE 125*</td>
<td>HIS 120 SPE 205 SPE 100</td>
<td></td>
</tr>
<tr>
<td>PSY 210</td>
<td>SPA 101 SOC 125 SPE 210</td>
<td></td>
</tr>
<tr>
<td>SPE 210</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ELECTRIC UTILITY TECHNOLOGY**

**Associate in Applied Science Degree**

This program is offered in partnership with FirstEnergy Corporation. It prepares students for employment as a line worker in electric and related utility industries. Students gain knowledge and skills in DC/AC electricity, electrical circuits, electrical control wiring, wiring systems, transformers, power generation and power distribution. In addition to classroom and laboratory instruction students also participate in hands-on experiences at a local electric utility company training facility. Upon successful completion of the program, students will be more employable and able to command a higher starting wage rate than the typical entry-level employee in the utility industry. Enrollment in the program is restricted.

Upon successful completion of this program, the student should be able to:

- Demonstrate effective technical writing skills.
- Demonstrate work practices that comply with OSHA and safety guidelines for the electric utility industry.
- Demonstrate proficiency in the use of various hand tools used in the electrical utility industry.
- Operate equipment used in the maintenance and repair of electric utility systems.
- Obtain a Commercial Drivers License (CDL).
- Troubleshoot faults in both above ground and underground circuits.
- Repair both un-energized and live circuits.

**Required Program of Study**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUT 100</td>
<td>Electric Utility Technology I</td>
<td>6</td>
</tr>
</tbody>
</table>

**Winter Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 150</td>
<td>Applied Physics</td>
<td>4</td>
</tr>
<tr>
<td>EUT 110</td>
<td>Electrical Systems and Control Wiring</td>
<td>4</td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUT 120</td>
<td>Electric Utility Technology II</td>
<td>6</td>
</tr>
</tbody>
</table>

**Spring Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>EUT 130</td>
<td>Wiring Systems, Transformers, Power</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Generation &amp; Distribution</td>
<td></td>
</tr>
</tbody>
</table>

**Summer Session**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUT 290</td>
<td>Cooperative Education</td>
<td>2</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUT 200</td>
<td>Electric Utility Technology III</td>
<td>6</td>
</tr>
</tbody>
</table>

**Fall Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 141</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>EUT 210</td>
<td>Local and National Electric Codes</td>
<td>3</td>
</tr>
</tbody>
</table>

**Winter Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 275</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 120</td>
<td>Interpersonal Relations &amp; Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUT 220</td>
<td>Electric Utility Technology IV</td>
<td>6</td>
</tr>
</tbody>
</table>

**Spring Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**ENVIRONMENTAL SCIENCE**

**TRANSFER ▼ RETIRE**

**NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.**

**Associate in Arts Degree**

This program is designed to prepare the student to enter a baccalaureate program in the environmental sciences on the junior level.

Upon successful completion of this program, the student should be able to:

- Demonstrate effective oral and written communication skills in the expression of scientific concepts.
- Apply mathematical methods to scientific problems.
- Apply basic scientific principles and concepts in the solution of problems and laboratory experiments.
- Demonstrate an ability to collect, organize, analyze, evaluate, and present data.
- Demonstrate the ability to retrieve data and search relevant literature.
- Demonstrate the ability to use specific scientific apparatus and instrumentation.
- Explain basic scientific concepts in the physical and biological sciences and their application to the field of environmental science.
- Analyze the literature of population, resources, biological principles, hydrological and limnological sciences, physical
geology, environmental testing as well as the environmental aspects of ethics, governmental laws and policies.

- Transfer to an accredited college or university.

**See General Education Requirements**

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 150</td>
<td>Biology I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 150</td>
<td>Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>ENV 170</td>
<td>Intro to Environment Science</td>
<td>4</td>
</tr>
<tr>
<td>MAT 180</td>
<td>Precalculus</td>
<td>3</td>
</tr>
</tbody>
</table>

**Suggested Electives**

Courses selected as electives will depend upon the institution to which you will transfer. It is essential that you consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 205</td>
<td>PHY 245</td>
<td></td>
</tr>
<tr>
<td>BIO 210</td>
<td>CHE 155</td>
<td></td>
</tr>
<tr>
<td>BIO 280</td>
<td>MAT 220</td>
<td></td>
</tr>
<tr>
<td>CHE 220</td>
<td>MAT 221</td>
<td></td>
</tr>
<tr>
<td>PHY 240</td>
<td>MAT 210</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Credit Hours Required for the Program: 60

**EXECUTIVE SECRETARY**

*Associate in Applied Science Degree*

The Executive Secretary program is designed to provide students with the competencies necessary to obtain employment as secretaries in business, industry, or government. Additional employment opportunities would be: bilingual secretary, social secretary, typist, clerical worker, and receptionist. College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.

Upon successful completion of this program, the students should be able to:

- Demonstrate effective communication skills in writing and speaking in a business environment.
- Apply math operations to solve fundamental business problems.
- Demonstrate proficiency in keyboarding of business letters, memos, reports, and tables at a high level of speed and accuracy.
- Demonstrate a high degree of accuracy in applying correct grammar, usage, and style when transcribing documents from dictated audio tapes.
- Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
- Transcribe from various kinds of original communication, such as handwritten copy, printed copy, and voice-recorded dictation.
- Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
- Apply principles of supervision and management in order to obtain maximum productivity from computerized systems in both traditional and automated offices, with appropriate emphasis on people, procedures, and equipment.
- Work independently, with others, or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes, and work habits that contribute to organizational goals.

- Use appropriate office procedures in the areas of records information management, calculator, telephone communications, incoming and outgoing mail, meetings and conferences, travel arrangements, and simulated projects.
- Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
- Recognize the changing nature of technology and adapt to new equipment and procedures while retaining the most appropriate traditional office practices.
- Use word processing, spreadsheet, database, presentation, and Internet skills to complete office tasks.

**Required Program of Study**

**First Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 105</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
</tbody>
</table>

**Second Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 140</td>
<td>Administrative Office Management</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>ORI 111</td>
<td>Keyboarding II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Third Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>ORI 112</td>
<td>Keyboarding III</td>
<td>3</td>
</tr>
<tr>
<td>ORI 120</td>
<td>Machine Dictation and Transcription</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fourth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 212</td>
<td>Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>ORI 213</td>
<td>Word Processing I</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>The Individual and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fifth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 220</td>
<td>Executive Dictation and Transcription</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sixth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAR 105</td>
<td>Professionalism on the Job</td>
<td>1</td>
</tr>
<tr>
<td>HUM - -</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>ORI 211</td>
<td>Speedwriting II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Or**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI - -</td>
<td>Business Elective (see list below)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 221</td>
<td>Executive Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>ORI 290</td>
<td>Cooperative Education I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program: 66

The following courses qualify as a Business Elective: ACC 105, ACC 110, BUS 100, BUS 220, BUS 230, ORI 210, ORI 211.
HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION

College Credit Certificate
The HVAC/R Program prepares students to become certified heating, ventilation, air conditioning and refrigeration technicians. It is designed to meet the demands of this rapidly changing industry. Equipment, technology and materials will be stressed along with new OSHA and EPA regulations regarding their use. Some of the coursework in this program will prepare students to take the EPA 605 Refrigerant Handlers Certification Examination. **College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.**

Upon successful completion of this program, the student should be able to:

• Read and interpret architectural, mechanical, plumbing, and structural blueprints.
• Demonstrate proficiency in the use of various refrigeration equipment and tools.
• Demonstrate the proper handling, disposal, and knowledge of various types of refrigerants.
• Install, service, and troubleshoot various types of heating, ventilation, and air conditioning equipment.
• Apply knowledge of electricity and the electrical control systems to heating, ventilation, and air conditioning equipment.

**Required Program of Study**

| First Term | HAC 100 Introduction to Refrigeration | 3 |
| HAC 101 Introduction to Refrigeration Lab | 1 |
| | MAT 110 Algebra II | 3 |
| HAC 120 Introduction to Electricity | 3 |
| HAC 121 Introduction to Electricity Lab | 1 |
| | HAC 130 HVAC/R Electrical Controls | 3 |
| HAC 131 HVAC/R Electrical Controls Lab | 1 |
| | HAC 140 Commercial Refrigeration | 3 |
| HAC 141 Commercial Refrigeration Lab | 1 |
| | HAC 150 Heating and Air Conditioning Systems | 3 |
| HAC 151 Heating and Air Conditioning Systems Lab | 1 |

Total Credit Hours Required for the Program 31

Students enrolling in daytime courses offered at the Berks Career and Technology Center must present a Criminal Background Check and Child Abuse Clearance prior to the first day of class. For information on this program contact the Coordinator of Special Programs at 610-607-6219.

HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION TECHNOLOGY

Associate in Applied Science Degree
The HVAC/R Technology program prepares students to install, troubleshoot and repair residential, light commercial, heavy commercial and industrial HVAC/R equipment. Students also study psychrometric charts and heat loads plus air distribution. Equipment, technology and materials will be stressed along with new OSHA and EPA regulations regarding their use. Some coursework will prepare students to take the EPA 605 Refrigerant Handlers Certification Examination. **College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.**

Upon successful completion of this program, the student should be able to:

• Demonstrate effective technical writing skills.
• Read, interpret, and create architectural, mechanical, plumbing, and structural blueprints.
• Demonstrate proficiency in the use various refrigeration equipment and tools.
• Demonstrate the proper handling, disposal and knowledge of various types of refrigerants.
• Install, service, and troubleshoot various types of heating, ventilation, and air conditioning equipment.
• Demonstrate knowledge of electricity, and the electrical control systems applied to heating, ventilation, and air conditioning equipment.
• Describe the properties of air, and air flow through analysis and interpretation of psychrometric charts.
• Calculate and apply building heating and cooling loads by properly selecting cooling, heating, and air conditioning equipment.

**Required Program of Study**

**First Term**
- HAC 100 Introduction to Refrigeration 3
- HAC 101 Introduction to Refrigeration Lab 1
- COM 121 English Composition 3
- ORI 102 College Success Strategies 2
- SOC 125 Individual & Society 3

**Second Term**
- COM 141 Technical Writing 3
- HAC 120 Introduction to Electricity 3
- HAC 121 Introduction to Electricity Lab 1
- MAT 110 Algebra II 3

**Third Term**
- HAC 130 HVAC/R Electrical Controls 3
- HAC 131 HVAC/R Electrical Controls Lab 1
- MAT 160 College Algebra 3
- PHY 150 Applied Physics 4

**Fourth Term**
- HAC 110 Architectural Blueprint Reading 3
- CHE 120 Principles of Chemistry 4
- ENV 130 The Environment 3

**Fifth Term**
- HAC 140 Commercial Refrigeration 3
- HAC 141 Commercial Refrigeration Lab 1
- HUM -- Humanities Elective 3
- MAT 165 Trigonometry 3

**Sixth Term**
- HAC 150 Heating and Air Conditioning Systems 3
- HAC 151 Heating and Air Conditioning Systems Lab 1
- HAC 200 Psychrometric Charts & Heat Loads 3
- HAC 210 Air Distribution 3

Total Credit Hours Required for the Program 63

Students enrolling in daytime courses offered at the Berks Career and Technology Center must present a Criminal Background Check and Child Abuse Clearance prior to the first day of class. For information on this program contact the Coordinator of Special Programs at 610-607-6219.

**HUMAN RESOURCES MANAGEMENT**

**No New Admission in this Program at this Time.**

**College Credit Certificate**
The Human Resources Management certificate program is designed to allow general business managers an opportunity to specialize in personnel and human resources topics. The skills and knowledge provided by these courses will enhance the manager’s ability to effectively attain and maintain an organization’s most valuable resource – people. All course work may later be applied to an Associate in Applied Science degree if the student desires.

Upon successful completion of the program, the student should be able to:
• Utilize business management principles to analyze problems and make decisions.
• Apply human resources management principles to analyze problems and make decisions concerning human resources.
• Design a system for the administration of compensation.
• Apply supervision skills.
• Utilize a personal computer to prepare documents using word processing, spreadsheet and database software and to perform basic navigation of the Internet.
• Prepare financial statement in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
• Demonstrate effective communication skills in writing and speaking in a business environment.
• Develop a marketing plan for a product, using the fundamental elements of the marketing mix.
• Apply the law to recognize legal implications of business and personal transactions.

**Required Program of Study**

- ACC 105 Financial Accounting 3
- BUS 100 Introduction to Business 3
- BUS 106 Business Communications 3
- BUS 220 Principles of Marketing 3
- BUS 230 Business Law 3
- COM 121 English Composition 3
- IFT 110 Microcomputer Applications 3
- MGT 240 Compensation Management 3
- MGT 100 Principles of Management 3
- MGT 200 Human Resources Management 3
- MGT 210 Supervisory Management 3
- ORI 102 College Success Strategies 2
- -- -- Business Elective 3

Total Credit Hours Required for the Certificate 38

Students should consult with an advisor to assure proper sequencing of courses.

The following courses qualify as a Business Elective: ACC 110, ACC 210, BUS 210, IFT 120, MGT 220, MGT 230, MGT 250, MGT 255, MGT 260, MGT 290 with CAR 120.

**HUMAN SERVICES WORKER**

**Associate in Applied Science Degree**

This program is designed to prepare students to work in the varied field of human services. The Human Services Worker, with supervision, follows a care plan which provides services that are supportive, rehabilitative and therapeutic. These services have some urgency to the client’s emotional or physical needs. Assessment, follow-up, networking and utilization of resources are critical functions for this work. The Human Services Worker must document all services provided from intake to closure.

Upon successful completion of this program, the student should be able to:
• Describe the historical development of human services.
• Identify the structure and dynamics of organizations, communities, and society as well as the nature of individuals and groups.
• Explain and apply psychological and sociological theory to client situations.
- Apply case management skills.
- Implement and evaluate interventions based on assessment of client needs.
- Demonstrate information management skills.
- Communicate effectively using verbal and nonverbal skills with individuals and groups.
- Act in a professional and ethical manner in carrying out duties and responsibilities during fieldwork placement in a human service agency or organization
- Demonstrate awareness of one’s values, cultural bias, reaction patterns, interpersonal style, and limitations.

### Required Program of Study

#### First Term
- ORI 102 College Success Strategies 2
- COM 121 English Composition 3
- HMS 110 Introduction to Human Services 3
- SOC 125 Individual and Society 3

#### Second Term
- COM 141 Technical Writing 3
- PSY 120 Interpersonal Relations and Communications 3
- PSY 130 General Psychology 3
- HMS 125 Human Services and the Law 3

#### Third Term
- SST 110 Information Technology for Social Sciences 3
- ENV 130 The Environment 3
- HMS 140 Health and Safety in Human Services 3
- COM 151 Fundamentals of Speech 3

#### Fourth Term
- HMS 215 Human Service Methods & Practice I 4
- MAT 150 Foundations of Math 3
- CAR 105 Professionalism on the Job 1

#### Fifth Term
- HMS 216 Human Service Methods & Practice II 3
- PSY 230 Abnormal Psychology 3
- HMS 250 Fieldwork in Human Services I * 3
- - - - Elective (ANT, HMS, PSY or SOC) 3

#### Sixth Term
- HMS 251 Fieldwork in Human Services II * 3
- HUM -- Humanities Elective 3
- POS 135 State and Local Government 3

Total Credit Hours Required for the Program 64

* Please refer to selective admissions procedures.

### HUMANITIES TRANSFER

#### Associate in Arts Degree
The Humanities Transfer program prepares students for transfer to a four-year college or university. It offers students a broad base of courses that focus on literature, philosophy, music, art and history as a foundation for future areas of specialization. This program also enables students to perceive relationships among disciplines.

Upon successful completion of this program, the student should be able to:
- Interpret the ways in which the Humanities influence cultures, societies and the lives of individuals.
- Discover the ways in which disciplines such as arts, history, philosophy, and language enrich the human condition.

### INDUSTRIAL ADMINISTRATION TRANSFER PROGRAM

**No new admission in this program at this time.**

#### Associate in Arts Degree
The Industrial Administration Transfer program is designed to prepare students to enter baccalaureate programs in Industrial Administration on the junior level.

Upon successful completion of this program, the student should be able to:
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Utilize business principles to analyze problems and make decisions.
- Apply economic theory to analyze social, political, financial, and business problems.
- Utilize a personal computer to prepare documents using word processing, spreadsheet and database software and to perform basic navigation of the Internet.
- Transfer to an accredited college or university.

See General Education Requirements

#### Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 200</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>
INFORMATION TECHNOLOGY

TRANSFER PROGRAM

Associate in Arts Degree

The Information Technology transfer program is designed to prepare students to enter baccalaureate programs in Information Technology on the junior level.

Upon successful completion of this program, the student should be able to:

- Demonstrate effective communication skills in writing and speaking in a business environment.
- Utilize business and management terminology and principles to analyze problems and make decisions.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Solve basic business problems as they pertain to computers.
- Formulate critical thinking to evaluate computing problems and explore options for their solution.
- Analyze problems with respect to the requirements of the computer and the required results.
- Plan detailed program logic to solve problems and convert the logic to a well-structured applications program utilizing pseudocode.
- Apply the structure of mathematics in relation to solving computer programming problems.
- Transfer to an accredited college or university.

See General Education Requirements

Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 200</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 201</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>PRG -</td>
<td>Programming Language</td>
<td></td>
</tr>
<tr>
<td>PRG 120</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PRG 140</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRG 150</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Suggested Electives

Courses selected as electives will depend upon the institution to which the student will transfer. It is essential that you consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

Minimum Credit Hours Required for the Program: 60

INFORMATION TECHNOLOGY

Computer Networking Concentration

Associate in Applied Science Degree

The Computer Networking concentration is designed to prepare graduates for employment in network support positions. Students will gain experience in installing, administering, supporting, and implementing local area networks in current platforms used by business and industry. Coursework will aid students in preparing to sit for various networking certification exams. College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.

Upon successful completion of this program, the student should be able to:

- Communicate effectively using appropriate computer technology.
- Install and troubleshoot microcomputers in a networked environment.
- Maintain the hardware and software in a networked environment.
- Describe the hardware and software needs in a modern business environment.
- Apply organizational, procedural, and systematic skills in the diagnosis of systems problems.
- Install and configure NetWare network operating system.
- Install and configure Microsoft network operating system.
- Administer, manage, and troubleshoot NetWare network operating system.
- Administer, manage, and troubleshoot Windows network operating system.
- Analyze, test, and propose solutions for problems relating to network cabling, hubs, servers, workstations, and other physical network devices.
- Analyze, test, and propose solutions relating to network devices.
- Analyze, test, and propose solutions for problems relating to network protocols, including the Internet (TCP/IP) protocol.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Utilize business management principles to analyze problems and make decisions.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Apply economic theory to analyze social, political, financial, and business problems.

Required Program of Study

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFT 100</td>
<td>Introduction to Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
</tbody>
</table>

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFT 120</td>
<td>Advanced Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>NET 100</td>
<td>Fundamentals of Networking</td>
<td>3</td>
</tr>
<tr>
<td>NET 105</td>
<td>Installation &amp; Maintenance of PC Oper Syst</td>
<td>3</td>
</tr>
<tr>
<td>MAT 150</td>
<td>Foundations of Math</td>
<td>3</td>
</tr>
</tbody>
</table>

Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NET 110</td>
<td>Network Administration (NetWare)</td>
<td>3</td>
</tr>
<tr>
<td>NET 125</td>
<td>Installation &amp; Maintenance of PC Hardware</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>The Individual and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum Credit Hours Required for the Program: 60
INFORMATION TECHNOLOGY

Computer Programming Concentration

Associate in Applied Science Degree

The Computer Programming concentration is designed to prepare graduates for employment in computer programming positions. Students will gain experience programming in both the microcomputer and mid-range computer environment with the ability to specialize in either platform. College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.

Upon successful completion of this program, the student should be able to:

- Solve basic business problems as they pertain to computers.
- Formulate critical thinking to evaluate computing problems and explore options for their solution.
- Apply effective approaches for problem solving and data modeling.
- Analyze problems with respect to the requirements of the computer and the required results.
- Plan detailed program logic to solve problems and convert the logic to a well-structured applications program utilizing pseudocode.
- Communicate effectively utilizing appropriate computer technology with programmers, analysts and management.
- In solving problems, apply the structure of mathematics and its relation and application to computers.
- Apply procedural and object oriented techniques to implement an interactive program design.
- Work effectively as a member of a team.
- Communicate effectively with computer professionals as well as non-technical clients.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Utilize business management principles to analyze problems and make decisions.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Apply economic theory to analyze social, political, financial, and business problems.

Total Credit Hours Required for the Program 65

INFORMATION TECHNOLOGY

PC User Support Concentration

Associate in Applied Science Degree

The PC User Support concentration is designed to prepare graduates for employment as technicians in areas such as help desk and technical support. Students will gain experience in PC hardware and software support. Students will develop a high level of proficiency in the use of software applications as well as a broad overview of networking, desktop publishing, and web applications. Coursework will aid students in preparing to sit for various certification exams.

College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.

Upon successful completion of this program, the student should be able to:

- Demonstrate expert-level proficiency in the use of integrated office software (word processing, spreadsheet, database, presentation, windows).
- Communicate effectively using appropriate computer technology.
- Provide customer support.

Total Credit Hours Required for the Program 68

*The following courses qualify as a Programming Elective: PRG 220, PRG 230, PRG 240, PRG 250.
• Create documents using desktop publishing software.
• Install and troubleshoot microcomputers in a networked environment.
• Maintain the hardware and software in a networked environment.
• Describe the hardware and software needs in a modern business environment.
• Analyze and resolve problems common to entry-level management personnel.
• Present technical information in oral, written, and graphic form, including use of microcomputers to manipulate content and access information.
• Identify fundamental elements of well-designed web sites.
• Employ the skills necessary to be an Internet site developer, designer or webmaster.

INFORMATION TECHNOLOGY
Web Site Development Concentration
Associate in Applied Science Degree
The Web Site Development concentration is designed to prepare graduates as web site developers. Students will gain experience in web site design, creation and implementation. They will also be able to maintain a web server. **College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.**

Upon successful completion of this program, the student should be able to:
• Identify principles of computer programming logic.
• Communicate effectively using appropriate computer technology.
• Utilize a writing style appropriate for an online writing audience.
• Create a web site using a variety of web authoring tools (software).
• Follow principles of good design in the planning and publishing of web sites.
• Describe multimedia applications appropriate for web sites.
• Launch a web site on a web server.
• Prepare documents using desktop publishing software.
• Employ the skills necessary to be an Internet site developer, designer or webmaster.
• Discuss electronic commerce concepts and practices.
• Identify terms used in electronic commerce and related technology.
• Discuss the global impact of electronic commerce on business.
• Demonstrate effective communication skills in writing and speaking in a business environment.
• Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
• Apply economic theory to analyze social, political, financial, and business problems.

**Required Program of Study**

**First Term**
- IFT 100 Introduction to Information Technology 3
- IFT 110 Microcomputer Applications 3
- COM 121 English Composition 3
- ORI 102 College Success Strategies 2
- MAT 150 Foundations of Math 3

**Second Term**
- IFT 120 Advanced Microcomputer Applications 3
- NET 100 Fundamentals of Networking 3
- BUS 106 Business Communications 3
- NET 105 Installation & Maintenance of PC Operating Systems 3

**Third Term**
- IFT 130 Expert Office Applications 3
- NET 125 Installation & Maintenance of PC Hardware 3
- SOC 125 The Individual and Society 3
- HUM - - Humanities Elective 3

**Fourth Term**
- COM 165 Desktop Publishing 3
- BUS 100 Introduction to Business 3
- ACC 105 Financial Accounting 3
- WEB 100 Web Design I 3

**Fifth Term**
- BUS 200 Macroeconomics (3) 3
- BUS 201 Microeconomics (3) 3
- IFT 140 Integrating Office Applications 3
- MGT 100 Principles of Management 3
- IFT 200 Customer Service Principles 1

**Sixth Term**
- ENV 130 The Environment 3
- IFT 210 Help Desk User Support 3
- IFT 220 Current Issues in Computing 3

Total Credit Hours Required for the Program 69

**Required Program of Study**

**First Term**
- IFT 100 Introduction to Information Technology 3
- IFT 110 Microcomputer Applications 3
- NET 100 Fundamentals of Networking 3
- PRG 100 Introduction to Computer Programming 3

**Second Term**
- WEB 110 Web Design II (Dreamweaver) 3
- NET 100 Fundamentals of Networking 3
- NET 105 Installation & Maintenance of PC Operating Systems 3
- ORI 102 College Success Strategies 2

**Third Term**
- WEB 210 Web Design Layout 3
- WEB 215 Web Design Graphics 3
- COM 121 English Composition 3
- MAT 150 Foundations of Math 3

**Fourth Term**
- WEB 250 Web Databases (PHP/MySQL) 3
- BUS 100 Introduction to Business 3
- BUS 106 Business Communications 3
- NET 120 Server Administration (NT) 3
Fifth Term
WEB 220  Flash Animation  3
BUS 200  Macroeconomics (3)  3
or
BUS 201  Microeconomics (3)  3
ENV 130  The Environment  3
SOC 125  The Individual and Society  3

Sixth Term
WEB 200  E-Commerce  3
PRG 160  JAVASCRIPT  3
MGT 100  Principles of Management  3
HUM  -  Humanities Elective  3

Total Credit Hours Required for the Program  71

INFORMATION TECHNOLOGY
Computer Networking Concentration  
NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.
College Credit Certificate
The Computer Networking concentration is designed to prepare graduates for employment in network support positions. It is designed for students who are working with computers and would like to expand their skills to include networking, as well as for students who currently have a bachelor’s degree and desire a change of careers. Coursework will aid students in preparing to sit for various networking certification exams, such as NetWare, Windows 2000, and A+. Students may receive credit for certain courses if they can demonstrate or document proficiency.

Upon successful completion of this program, the student should be able to:
• Communicate effectively using appropriate computer technology.
• Install and troubleshoot microcomputers in a networked environment.
• Maintain the hardware and software in a networked environment.
• Describe the hardware and software needs in a modern business environment.
• Utilize business terminology and concepts.
• Apply organizational, procedural, and systematic skills in the diagnosis of systems problems.
• Install and configure NetWare network operating system.
• Install and configure Microsoft network operating system.
• Administer, manage, and troubleshoot NetWare network operating system.
• Administer, manage, and troubleshoot Windows network operating system.
• Analyze, test, and propose solutions for problems relating to network cabling, hubs, servers, workstations, and other physical network devices.
• Analyze, test, and propose solutions relating to network devices.
• Analyze, test, and propose solutions for problems relating to network protocols, including the Internet (TCP/IP) protocol.

Required Program of Study
IFT 100  Introduction to Information Technology  3
IFT 110  Microcomputer Applications  3
IFT 120  Advanced Microcomputer Applications  3
NET 100  Fundamentals of Networking  3
NET 105  Installation and Maintenance of PC Operating Systems  3
NET 110  Network Administration (NetWare)  3
NET 120  Server Administration (Windows)  3
NET 125  Installation and Maintenance of PCs  3
NET 200  Network Technologies & Troubleshooting  3
NET 210  Advanced Network Administration (NetWare)  3
NET 220  Advanced Server Administration (Windows)  3
NET 230  TCP/IP  3
NET 240  Designing Systems for Client/Server Architecture  3

Total Credit Hours Required for the Program  39

INFORMATION TECHNOLOGY
Computer Programming Concentration
College Credit Certificate
The Computer Programming concentration is designed to prepare graduates for employment in computer programming positions. It is designed for individuals who are working with computers and would like to expand their skills to include programming, as well as for students who currently have a bachelor’s degree and desire a change of careers. Students may receive credit for certain courses if they can demonstrate or document proficiency.

Upon successful completion of this program, the student should be able to:
• Solve basic business problems as they pertain to computers.
• Formulate critical thinking to evaluate computing problems and explore options for their solution.
• Apply effective approaches for problem solving and data modeling.
• Analyze problems with respect to the requirements of the computer and the required results.
• Plan detailed program logic to solve problems and convert the logic to a well-structured applications program utilizing pseudocode.
• Demonstrate the ability to communicate effectively utilizing appropriate computer technology with programmers, analysts, and managers.
• Demonstrate an understanding of the structure of mathematics and its relation and application to computers.
• Apply procedural and object oriented techniques to implement and interactive program designs.
• Work effectively as a member of a team.
• Communicate effectively with computer professionals as well as non-technical clients.

Required Program of Study
IFT 100  Introduction to Information Technology  3
IFT 110  Microcomputer Applications  3
IFT 120  Advanced Microcomputer Applications  3
PRG 100  Introduction to Computer Programming  3
PRG 110  AS/400 Concepts and Operations  3
PRG 120  COBOL  3
PRG 130  RPG IV  3
PRG 140  Visual Basic  3
PRG 150  C++  3
PRG 160  JAVASCRIPT  3
PRG 200  Systems Analysis & Design  3

Students will select any two of the following:  6
PRG 220  Advanced COBOL
PRG 230  Advanced RPG IV
PRG 240  Advanced Visual Basic
PRG 250  Advanced C++

Total Credit Hours Required for the Program  39
INFORMATION TECHNOLOGY

PC User Support Concentration
College Credit Certificate

The PC User Support concentration is designed to prepare graduates as technicians in areas such as help desk and technical support. It is designed for individuals who are working with computers and would like to expand their skills to include PC hardware and software support, as well as for students who currently have a bachelor’s degree and desire a change of careers. Students may receive credit for certain courses if they can demonstrate or document proficiency.

Upon successful completion of this program, the student should be able to:

- Demonstrate expert-level proficiency in the use of integrated office software (word processing, spreadsheet, database, windows).
- Communicate effectively using appropriate computer technology.
- Provide customer support.
- Create documents using desktop publishing software.
- Install and troubleshoot microcomputers in a networked environment.
- Maintain the hardware and software in a networked environment.
- Describe the hardware and software needs in a modern business environment.
- Analyze and resolve problems common to entry-level management personnel.
- Utilize business terminology and concepts.
- Present technical information in oral, written, and graphic form, including use of microcomputers to manipulate content and access information.
- Identify fundamentals elements of well-designed web sites.

Required Program of Study

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 165</td>
<td>Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>IFT 100</td>
<td>Introduction to Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>IFT 120</td>
<td>Advanced Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>IFT 130</td>
<td>Expert Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>IFT 140</td>
<td>Integrating Office Applications</td>
<td>3</td>
</tr>
<tr>
<td>IFT 200</td>
<td>Customer Service Principles</td>
<td>1</td>
</tr>
<tr>
<td>IFT 210</td>
<td>Help Desk User Support</td>
<td>3</td>
</tr>
<tr>
<td>IFT 220</td>
<td>Current Issues in Computing</td>
<td>3</td>
</tr>
<tr>
<td>NET 100</td>
<td>Fundamentals of Networking</td>
<td>3</td>
</tr>
<tr>
<td>NET 105</td>
<td>Installation and Maintenance of PC Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>NET 125</td>
<td>Installation &amp; Maintenance of PC Hardware</td>
<td>3</td>
</tr>
<tr>
<td>WEB 100</td>
<td>Web Design I</td>
<td>3</td>
</tr>
<tr>
<td>PRG 160</td>
<td>JAVASCRIPT</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program 39

LABORATORY SCIENCE

Laboratory Technician

No new admission in this program at this time.

Associate in Applied Science Degree

This curriculum is designed to prepare students for careers as laboratory technicians in industry. Graduates may seek employment as technicians in environmental science, chemistry, research, or quality control laboratories.

Upon successful completion of this program, the student should be able to:

- Demonstrate effective technical writing skills.
- Apply statistical methods for accuracy, precision, and error analysis as they pertain to quality control, measured results, and calculated results.
- Utilize computer applications, including spreadsheets, word processing, and online communications, for processing data.
- Explain basic scientific principles related to the behavior of matter at the atomic and macroscopic levels in chemical, biological, and mechanical systems.

INFORMATION TECHNOLOGY

Web Site Development Concentration
College Credit Certificate

The Web Site Development concentration is designed to prepare graduates as web site developers. Students will gain experience in web site design, creation, and implementation. They will also be able to maintain a web server. The program is also designed for individuals working in advertising and marketing as well as for students who currently have a bachelor’s degree and desire a change of careers. Students may receive credit for certain courses if they can demonstrate or document proficiency.

Upon successful completion of this program, the student should be able to:

- Identify principles of computer programming logic.
- Communicate effectively using appropriate computer technology.
- Utilize a writing style appropriate for an online writing audience.
- Create a web site using a variety of web authoring tools (software).
- Follow principles of good design in the planning and publishing of web sites.
- Describe multimedia applications appropriate for web sites.
- Launch a web site on a web server.
- Prepare documents using desktop publishing software.
- Utilize business terminology and concepts.
- Employ the skills necessary to be an Internet site developer, designer, or webmaster.
- Apply electronic commerce concepts and practices.
- Identify terms used in electronic commerce and related technology.
- Discuss the global impact of electronic commerce on business.

Required Program of Study

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFT 100</td>
<td>Introduction to Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>WEB 100</td>
<td>Web Design I (HTML)</td>
<td>3</td>
</tr>
<tr>
<td>WEB 115</td>
<td>Web Design II (Dreamweaver)</td>
<td>3</td>
</tr>
<tr>
<td>NET 100</td>
<td>Fundamentals of Networking</td>
<td>3</td>
</tr>
<tr>
<td>NET 105</td>
<td>Installation &amp; Maintenance of PC Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>PRG 100</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>WEB 210</td>
<td>Web Design Layout</td>
<td>3</td>
</tr>
<tr>
<td>WEB 215</td>
<td>Web Design Graphics</td>
<td>3</td>
</tr>
<tr>
<td>WEB 230</td>
<td>Web Databases PHP/MySQL</td>
<td>3</td>
</tr>
<tr>
<td>NET 120</td>
<td>Server Administration (NT)</td>
<td>3</td>
</tr>
<tr>
<td>WEB 220</td>
<td>Flash Animation</td>
<td>3</td>
</tr>
<tr>
<td>WEB 200</td>
<td>E-Commerce</td>
<td>3</td>
</tr>
<tr>
<td>PRG 160</td>
<td>JAVASCRIPT</td>
<td>3</td>
</tr>
<tr>
<td>WEB 100</td>
<td>Web Design I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program 39
• Describe the purpose and theory of operation of various types of laboratory apparatus, glassware, and instrumentation.
• Demonstrate proficiency in the use of various types of laboratory apparatus, glassware, and instrumentation.

Required Program of Study

First Term
ORI 102 College Success Strategies 2
BIO 150 Biology I 4
MAT 165 Trigonometry 3
IFT 110 Microcomputer Applications 3
CHE 110 Introduction to the Laboratory 1

Second Term
BIO 280 Microbiology 4
CHE 150 Chemistry I 4
COM 121 English Composition 3

Third Term
CHE 155 Chemistry II 4
CHE 220 Introduction to Organic Chemistry 5

Fourth Term
CAR 105 Professionalism on the Job 1
COM 141 Technical Writing 3
CHE 275 Instrumental Analysis 4
MAT 210 Statistics 3

Fifth Term
SOC 125 The Individual and Society 3
PHY 240 Physics I 4
CHE 290 Cooperative Education I 3

Sixth Term
HUM -- Humanities Elective 3
PHY 245 Physics II 4
CHE 291 Cooperative Education II 3

Total Credit Hours Required for the Program 64

LABORATORY SCIENCE
Nanoscience Technology
Associate in Applied Science Degree

This curriculum, in conjunction with the Pennsylvania State University Nanofabrication Manufacturing Technology Program, prepares students for careers as skilled technicians for manufacturers utilizing nanofabrication technology. This discipline includes biotechnology, automation, miniaturization, integration, optics, robotics, and information systems.

Upon successful completion of this program, the student should be able to:
• Demonstrate effective technical writing skills.
• Apply statistical methods for accuracy, precision, and error analysis as they pertain to quality control, measured results, and calculated results.
• Utilize computer applications, including spreadsheets, word processing, and online communications, for processing data.
• Explain basic scientific principles related to the behavior of matter at the atomic and macroscopic levels in chemical, biological, and mechanical systems.
• Demonstrate necessary skills to function as a manufacturing technician in nanofabrication.
• Demonstrate proficiency in operating state of the art nanofabrication equipment.
• Demonstrate proficiency in identifying component and system level problems.
• Apply the concepts of the nanofabrication process related to advanced electronic and the latest nano-level manufacturing technologies.

Required Program of Study

First Term
ORI 102 College Success Strategies 2
BIO 150 Biology I 4
MAT 165 Trigonometry 3
IFT 110 Microcomputer Applications 3

Second Term
CHE 150 Chemistry I 4
COM 121 English Composition 3
ELT 100 DC/AC Circuits 4

Third Term
COM 141 Technical Writing 3
ENV 130 The Environment 3
MAT 210 Statistics 3
PHY 150 Applied Physics 4

Fourth Term
ELT 200 Digital Elect/Solid State Device 4
HUM -- Humanities Elective 3
NSC 200 Nanofabrication Seminar 1
SOC 125 The Individual and Society 3

Fifth & Sixth Terms Capstone Semester
(Semester at Penn State-Main Campus)
NSC 211 Materials, Safety & Equipment Overview for Nanofabrication 3
NSC 212 Basic Nanofabrication Process 3
NSC 213 Thin Film in Nanofabrication 3
NSC 214 Lithography for Nanofabrication 3
NSC 215 Materials Modification in Nanofabrication 3
NSC 216 Characterization, Packaging, & Testing of Nanofabricated Structures 3

Total Credit Hours Required for the Program 65

LABORATORY SCIENCE
Nanoscience Technology
Associate in Applied Science Degree
2+2+2 Millersville University Transfer

This curriculum, in conjunction with the Pennsylvania State University Nanofabrication Manufacturing Technology Program, prepares students for careers as skilled technicians for manufacturers utilizing nanofabrication technology. This discipline includes biotechnology, automation, miniaturization, integration, optics, robotics and information systems.

Upon successful completion of this program, the student should be able to:
• Demonstrate effective technical writing skills.
• Apply statistical methods for accuracy, precision and error analysis as they pertain to quality control, measured results and calculated results.
• Utilize computer applications, including spreadsheets, word processing and online communications for processing data.
• Explain basic scientific principles related to the behavior of matter at the atomic and macroscopic levels in chemical, biological and mechanical systems.
• Demonstrate necessary skills to function as a manufacturing technician in nanofabrication.
• Demonstrate proficiency in operating state of the art nanofabrication equipment.
• Demonstrate proficiency in identifying component and system level problems.
• Apply the concepts of the nanofabrication process related to advanced electronic and the latest nano-level manufacturing technologies.

This curriculum in conjunction with The Pennsylvania State University Nanofabrication Manufacturing Technology Program prepares students to enter the B.S. in Industrial Technology with a concentration in Nanofabrication Manufacturing Technology at Millersville University.

2-HIGH SCHOOL/RACC DUAL ENROLLMENT
You can earn college credit for the following courses through your high school and the Berks Career and Technology Center or Lancaster County Career and Technology Center.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 121 English Composition*</td>
<td>3</td>
</tr>
<tr>
<td>MAT 220 Calculus I*</td>
<td>4</td>
</tr>
<tr>
<td>ELT 100 DC/AC Circuits**</td>
<td>4</td>
</tr>
<tr>
<td>ELT 200 Digital Elect/Solid State Devices**</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 15

*Earned through your local high school
**Earned through your local CTC

FIRST TERM
- BIO 150 Biology I 3
- IFT 110 Microcomputer Applications 3
- ORI 102 College Success Strategies 2
- ENV 130 The Environment 3

SECOND TERM
- PHY 240 Physics I 4
- PSY 130 General Psychology 3
- COM 151 Fundamentals of Speech 3

THIRD TERM
- COM 141 Technical Writing 3
- PHY 245 Physics II 4
- CHE 150 Chemistry I 4

FOURTH TERM
- MAT 210 Statistics 3
- HUM - - Humanities Elective 3
- SOC 125 The Individual and Society 3
- NSC 200 Nanofabrication Seminar 3

CAPSTONE SEMESTER
Second Year (Winter, Spring Terms)

at Penn State-Main Campus
- NSC 211 Materials, Safety, Health Issues & Equipment Basic to Nanofabrication 3
- NSC 212 Basic Nanofabrication Process 3
- NSC 213 Thin Film Utilization in Nanofabrication 3
- NSC 214 Lithography 3
- NSC 215 Materials Modification in Nanofabrication 3
- NSC 216 Characterization, Packaging, & Testing in Nanofabrication 3

Total Credit Hours Required for the Program 72

LABORATORY SCIENCE
Nanoscience Technology
Associate in Applied Science Degree
2+2+2 Penn State Berks College Transfer
This curriculum, in conjunction with the Pennsylvania State University Nanofabrication Manufacturing Technology Program, prepares students for careers as skilled technicians for manufacturers utilizing nanofabrication technology. This discipline includes biotechnology, automation, miniaturization, optics, robotics and information systems.

Upon successful completion of this program, the student should be able to:
• Demonstrate effective technical writing skills.
• Apply statistical methods for accuracy, precision and error analysis as they pertain to quality control, measured results and calculated results.
• Utilize computer applications, including spreadsheets, word processing and online communications for processing data.
• Explain basic scientific principles related to the behavior of matter at the atomic and macroscopic levels in chemical, biological and mechanical systems.
• Demonstrate necessary skills to function as a manufacturing technician in nanofabrication.
• Demonstrate proficiency in operating state of the art nanofabrication equipment.
• Demonstrate proficiency in identifying component and system level problems.
• Apply the concepts of the nanofabrication process related to advanced electronic and the latest nano-level manufacturing technologies.

This curriculum prepares students to enter the B.S. in Science, General Science option with a concentration in Nanoscience at Penn State Berks College.

2-HIGH SCHOOL/RACC DUAL ENROLLMENT
You can earn college credit for the following courses through your high school and the Berks Career and Technology Center or Lancaster County Career and Technology Center.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 121 English Composition*</td>
<td>3</td>
</tr>
<tr>
<td>MAT 220 Calculus I*</td>
<td>4</td>
</tr>
<tr>
<td>ELT 100 DC/AC Circuits**</td>
<td>4</td>
</tr>
<tr>
<td>ELT 200 Digital Elect/Solid State Devices**</td>
<td>4</td>
</tr>
<tr>
<td>ORI 102 College Success Strategies** (optional)</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Credits 17

*Earned through your local high school
**Earned through your local CTC

FIRST YEAR

FALL TERM
- BIO 150 Biology I 4
- PHYS 211 General Physics Mechanics* 4
- IFT 110 Microcomputer Applications 3

WINTER TERM
- CHE 150 Chemistry I 4
- MAT 221 Calculus II 4
- HUM - - Humanities Elective 3

SPRING TERM
- COM 141 Technical Writing 3
- PHY 245 Physics II 4
- MAT 210 Statistics 3
SECOND YEAR

FALL TERM
PHYS 212 General Physics: Electricity & Magnetism* 4
ENV 130 The Environment 3
NSC 200 Nanofabrication Seminar 1
SOC 125 The Individual and Society 3

Total Credit Hours Required for the Program 11

CAPSTONE SEMESTER

Second Year (Winter, Spring Terms) at Penn State-Main Campus

NSC 211 Materials, Safety, Health Issues & Equipment 3
NSC 212 Basic Nanofabrication Process 3
NSC 213 Thin Film Utilization in Nanofabrication 3
NSC 214 Lithography 3
NSC 215 Materials Modification in Nanofabrication 3
NSC 216 Characterization, Packaging, & Testing in Nanofabrication 3

Total Credit Hours Required for the Program 18

LABORATORY ASSISTANT

College Credit Certificate

NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.
The Laboratory Assistant Certificate Program prepares graduates to work in a laboratory under the supervision of a technician, analyst, or scientist. Laboratory assistants perform many routine laboratory tasks such as sample log-in, data entry, sample preparation, prior to analysis, and preparation of chemical reagents. The certificate program provides the student with a broad-based science education applicable to a variety of laboratory settings. The courses required for the certificate are either prerequisites for the Laboratory Technician Associate of Applied Science Program, or are required for that program, so students may continue their education to the laboratory technician level with no loss of credit.

Upon successful completion of this program, the student should be able to:
• Demonstrate effective technical writing skills.
• Apply elementary algebraic and statistical methods to physical science problems.
• Utilize computer applications, including spreadsheets, word processing, and online communications.
• Explain introductory concepts in chemistry, biology, and physics.
• Demonstrate proficiency in the use of common laboratory glassware and apparatus.

Required Program of Study

First Term
ORI 102 College Success Strategies 2
CHE 110 Introduction to the Laboratory 1
MAT 210 Statistics 3
CHE 120 Principles of Chemistry 4

Second Term
COM 121 English Composition 3
IFT 110 Microcomputer Applications 3
BIO 150 Biology I 4

Third Term
COM 141 Technical Writing 3
PHY 120 Principles of Physics 4
BIO 280 Microbiology 4

Total Credit Hours Required for the Program 31

LABORATORY SCIENCE

Nanoscience Technology
College Credit Certificate

This curriculum, in conjunction with the Pennsylvania State University Nanofabrication Manufacturing Technology Program, prepares students for careers as skilled technicians for manufacturers utilizing nanofabrication technology. This discipline includes biotechnology, automation, miniaturization, integration, optics, robotics, and information systems.

Upon successful completion of this program, the student should be able to:
• Apply statistical methods for accuracy, precision, and error analysis as they pertain to quality control, measured results, and calculated results.
• Utilize computer applications, including spreadsheets, word processing, and online communications, for processing data.
• Explain basic scientific principles related to the behavior of matter at the atomic and macroscopic levels in chemical, biological, and mechanical systems.
• Demonstrate necessary skills to function as a manufacturing technician in nanofabrication.
• Demonstrate proficiency in operating state of the art nanofabrication equipment.
• Demonstrate proficiency in identifying component and system level problems.
• Apply the concepts of the nanofabrication process related to advanced electronic and the latest nano-level manufacturing technologies.

Required Program of Study

First Term
BIO 150 Biology I 4
MAT 165 Trigonometry 3

Second Term
CHE 150 Chemistry I 4
ELT 100 DC/AC Circuits 4

Third Term
MAT 210 Statistics 3
PHY 150 Applied Physics 4

Fourth Term
ELT 200 Digital Electronics/Solid State Device 4
NSC 200 Nanofabrication Seminar 1
IFT 110 Microcomputer Applications 3

Fifth & Sixth Terms
(Semester at Penn State-Main Campus)
NSC 211 Materials, Safety & Equipment Overview for Nanofabrication 3
NSC 212 Basic Nanofabrication Process 3
NSC 213 Thin Film in Nanofabrication 3
NSC 214 Lithography for Nanofabrication 3
NSC 215 Materials Modification in Nanofabrication 3
NSC 216 Characterization, Packaging, & Testing of Nanofabricated Structures 3

Total Credit Hours Required for the Program 48
LEGAL SECRETARY

Associate in Applied Science Degree

The Legal Secretary program is designed to provide students with the competencies necessary to obtain employment as legal secretaries or legal word processing specialists. Graduates are prepared to work for a private law firm, legal department of a corporation, insurance company, bank, deed and title company, or for a government agency—local, state, or federal. College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.

Upon successful completion of this program, the students should be able to:

- Demonstrate effective written communication skills in writing and speaking in a business environment.
- Apply math operations to solve fundamental business problems.
- Utilize legal terminology, rules and procedures to recognize legal implications of business transactions and occurrences.
- Demonstrate proficiency in keyboarding of business letters, memos, reports, and tables at a high level of speed and accuracy.
- Demonstrate a high degree of accuracy in applying correct grammar, usage, and style when transcribing legal documents from dictated audio tapes.
- Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
- Transcribe from various kinds of original communication, such as handwritten copy, printed copy, and voice-recorded dictation.
- Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
- Apply principles of supervision and management in order to obtain maximum productivity from computerized systems in both traditional and automated offices, with appropriate emphasis on people, procedures, and equipment.
- Work independently, with others, or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes, and work habits that contribute to organizational goals.
- Use appropriate office procedures in the areas of records information management, calculator, telephone communications, incoming and outgoing mail, meetings and conferences, travel arrangements, and simulated projects.
- Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
- Recognize the changing nature of technology and adapt to new equipment and procedures while retaining the most appropriate traditional office practices.
- Use word processing, spreadsheet, database, presentation, and Internet skills to complete office tasks.

Required Program of Study

**First Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 105</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>1</td>
</tr>
</tbody>
</table>

**Second Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 140</td>
<td>Administrative Office Management</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>ORI 111</td>
<td>Keyboarding II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Third Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>ORI 112</td>
<td>Keyboarding III</td>
<td>3</td>
</tr>
<tr>
<td>ORI 120</td>
<td>Machine Dictation and Transcription</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fourth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 210</td>
<td>Speedwriting I</td>
<td>3</td>
</tr>
<tr>
<td>OFT 214</td>
<td>Word Processing II</td>
<td>3</td>
</tr>
<tr>
<td>OFT 213</td>
<td>Advanced Legal Transcription</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>The Individual and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**Fifth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 230</td>
<td>Legal Terminology and Transcription</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sixth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 230</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CAR 105</td>
<td>Professionalism on the Job</td>
<td>1</td>
</tr>
<tr>
<td>OFT 211</td>
<td>Speedwriting II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Business Elective</td>
<td>3</td>
</tr>
<tr>
<td>OFT 232</td>
<td>Legal Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>OFT 290</td>
<td>Cooperative Education I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program: 68

The following courses qualify as a Business Elective: ACC 105, ACC 110, BUS 100, BUS 220, BUS 230, OFT 210, OFT 211.

LEGAL SECRETARY

College Credit Certificate

The Legal Secretary Certificate program is designed to provide students who already possess advanced secretarial skills with the competencies necessary to obtain employment as legal secretaries or legal word processing specialists. All course work may later be applied to an Associate in Applied Science degree if the student desires. Prior secretarial experience is required for entry to this program.

Upon successful completion of this program, the students should be able to:

- Demonstrate effective communication skills in writing and speaking in a business environment.
- Apply math operations to solve fundamental business problems.
- Utilize legal terminology, rules and procedures to recognize legal implications of business and personal transactions and occurrences.
- Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
- Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
- Work independently, with others, or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes, and work habits that contribute to organizational goals.
- Use appropriate office procedures in the areas of records information management, calculator, telephone communications, incoming and outgoing mail, meetings and conferences, travel arrangements, and simulated projects.
LEGAL SECRETARIAL SKILLS 

NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.

Office Technology Diploma
The Legal Secretarial Skills Diploma is designed to provide students who already possess advanced secretarial skills with the competencies necessary to obtain employment as legal secretaries or legal work processing specialists. Prior secretarial experience is required for entry to this program.

Upon successful completion of this program, the students should be able to:

- Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
- Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
- Work independently, with others, or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes, and work habits that contribute to organizational goals.
- Demonstrate a high degree of accuracy in applying correct grammar, usage, and style when transcribing legal documents from dictated audio tapes.
- Recognize the changing nature of technology and adapt to new equipment and procedures while retaining the most appropriate traditional office practices.
- Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
- Use word processing, spreadsheet, database, presentation, and Internet skills to complete office tasks.
- Use appropriate office procedures in the areas of records information management, calculator, telephone communications, incoming and outgoing mail, meetings and conferences, travel arrangements, and simulated projects.

LIBERAL ARTS TRANSFER

Associate in Arts Degree
The Liberal Arts Transfer program prepares students for transfer to a four-year college or university. It offers students a broad base of courses and experiences as a foundation for future areas of specialization. This program also enables students to make connections across disciplines.

Upon successful completion of this program, the student should be able to:
• Listen, speak, read, write and make presentations on a college level.
• Identify personal values and recognize ethical choices as well as the social and environmental consequences of personal decisions.
• Demonstrate an awareness of and sensitivity for cultural heritage, cultural diversity and diverse viewpoints.
• Demonstrate critical thinking, problem-solving and study strategies.
• Demonstrate mathematical and information technology skills as appropriate for a future specialization.
• Employ appropriate methods of research by assessing and evaluating information from a variety of credible sources.
• Transfer to an accredited college or university.

Courses chosen as electives depend upon the institution to which the student transfers. It is essential that the student consult with a faculty advisor for assistance in selecting courses. The student is responsible for meeting with an admissions representative from the four-year institution to determine its transfer policies.

See General Education Requirements
Elective Requirements - 28 credits

Minimum Credit Hours Required for the Program 60

MACHINE TOOL TECHNOLOGY
Associate in Applied Science Degree

The Machine Tool Technology curriculum is designed to provide the student with above-entry-level knowledge and skills required of personnel entering the positions of parts inspector, machine operator, and machining technician. The graduate is prepared with educational experiences conducive to employment consideration as a machinist or as a tool and die maker trainee. Other career options for graduates of this program are dependent on experience and skills development. These positions include: instrument maker, production machine set-up person, computerized numerically controlled machine tool operator and computerized numerically controlled machine tool programmer. Related careers requiring additional educational experiences include various positions within management or positions such as mechanical technician, mechanical technologist, mechanical engineer, machine tool designer, tool and die designer and others. College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.

Upon successful completion of this program, the student should be able to:
• Demonstrate effective technical writing skills.
• Analyze, interpret and prepare mechanical drawings using AutoCad.
• Demonstrate proficiency in the use of handtools, semi-precision, precision layout and measuring tools.
• Operate the machine tools used in manufacturing according to National Institute Metalworking Skills (NIMS) Level 1 and selected NIMS Level 2 standards.
• Demonstrate proficiency in writing part programs, setup and operating CNC milling and turning centers according to industrial standards.
• Demonstrate proficiency in designing parts, generating toolpaths and CNC code in 2D and 3D using MasterCAM software

Required Program of Study

<table>
<thead>
<tr>
<th>First Year/Fall Semester</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTT 165 Machine Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MTT 120 Machine Tool Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102 College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td>MTT 131 Engineering Graphics with Blueprint</td>
<td>3</td>
</tr>
<tr>
<td>MTT 125 Machine Tool Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>COM 141 Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>Second Year/Fall Semester</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>MTT 151 Introduction to Metalworking</td>
<td>3</td>
</tr>
<tr>
<td>MTT 170 Machine Theory II</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102 College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td>MTT 152 Basic Power Tools</td>
<td>2</td>
</tr>
<tr>
<td>MTT 135 Blueprint Reading II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 150 Applied Physics</td>
<td>4</td>
</tr>
<tr>
<td>Third Year/Fall Semester</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>MTT 156 Turning Technology</td>
<td>3</td>
</tr>
<tr>
<td>EGR 106 Engineering Graphics II</td>
<td>2</td>
</tr>
<tr>
<td>MTT 152 Basic Power Tools</td>
<td>2</td>
</tr>
<tr>
<td>MTT 135 Blueprint Reading II</td>
<td>3</td>
</tr>
<tr>
<td>Fourth Year/Fall Semester</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>MTT 221 Grinding Technology</td>
<td>3</td>
</tr>
<tr>
<td>MTT 261 Basic CNC Programming Theory/Milling &amp; Turning</td>
<td>3</td>
</tr>
<tr>
<td>MTT 211 Milling Technology</td>
<td>3</td>
</tr>
<tr>
<td>MTT 140 Blueprint Reading III</td>
<td>3</td>
</tr>
<tr>
<td>MTT 265 CNC Fixture Design</td>
<td>2</td>
</tr>
<tr>
<td>Fifth Year/Fall Semester</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>MTT 271 Advanced CNC Milling</td>
<td>3</td>
</tr>
<tr>
<td>MTT 140 Blueprint Reading III</td>
<td>3</td>
</tr>
<tr>
<td>MTT 281 MasterCAM Programming I &amp; II</td>
<td>2</td>
</tr>
<tr>
<td>MTT 276 Advanced CNC Turning</td>
<td>3</td>
</tr>
<tr>
<td>MTT 286 MasterCAM Programming III</td>
<td>2</td>
</tr>
<tr>
<td>Sixth Year/Fall Semester</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>MTT 201 EDM Theory-Wire &amp; Conversion</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours Required for the Program</td>
<td>76</td>
</tr>
</tbody>
</table>

Students enrolling in daytime courses offered at the Berks Career and Technology Center must present a Criminal Background Check and Child Abuse Clearance prior to the first day of class.
MACHINE TOOL TECHNOLOGY
(Apprenticeship) • RETIRE

NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.

College Credit Certificate
This curriculum is designed to prepare the student for an entry-
level position as a machine parts inspector, machine operator, or
machinist trainee. The program is designed to run concurrently
with a work-based apprenticeship experience. Emphasis is on
theory and labs that reinforce skills learned in the workplace.
Interested individuals should refer to the Machine Tool
Technology – Associate in Applied Science degree regarding
preparation for additional career opportunities in the machine
tool field.

Upon successful completion of this program, the student should
be able to:
• Analyze, interpret, and prepare mechanical drawings using
AutoCAD.
• Demonstrate proficiency in the use of handtools, semi-
precision, precision layout, and measuring tools.
• Operate the machine tools used in manufacturing according
to National Institute Metalworking Skills (NIMS) Level 1
standards.
• Write basic CNC milling and CNC turning programs to
industrial standards.

Required Program of Study

| First Year/Fall Semester | MTT 165 Machine Theory I | 3 |
| MTT 120 Machine Tool Mathematics I | 3 |
| | 6 |
| First Year/Spring Semester | MTT 131 Engineering Graphics with Blueprint | 3 |
| MTT 125 Machine Tool Mathematics II | 3 |
| | 6 |
| Second Year/Fall Semester | MTT 151 Introduction to Metalworking | 3 |
| MTT 170 Machine Theory II | 3 |
| | 6 |
| Second Year/Spring Semester | MTT 152 Basic Power Tools | 2 |
| MTT 135 Blueprint Reading II | 3 |
| | 5 |
| Third Year/Fall Semester | MTT 156 Turning Technology | 3 |
| EGR 106 Engineering Graphics II | 2 |
| | 5 |
| Third Year/Spring Semester | MTT 211 Milling Technology | 3 |
| MTT 140 Blueprint Reading III | 3 |
| | 6 |
| Fourth Year/Fall Semester | MTT 221 Grinding Technology | 3 |
| MTT 261 Basic CNC Programming Theory/Milling & Turning | 3 |
| | 6 |
| Fourth Year/Spring Semester | MTT 240 Metrology | 3 |
| MTT 265 CNC Fixture Design | 2 |
| | 5 |
| Total Credit Hours Required for the Program | 45 |

Students enrolling in daytime courses offered at the Berks Career
and Technology Center must present a Criminal Background
Check and Child Abuse Clearance prior to the first day of class.

MACHINE TOOL TECHNOLOGY
(Apprenticeship)(Daytime Sequence) • RETIRE

NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.

College Credit Certificate
This curriculum is designed to prepare the student for an entry-
level position as a machine parts inspector, machine operator, or
machinist trainee. The program is designed to run concurrently
with a work-based apprenticeship experience. Emphasis is on
theory and labs that reinforce skills learned in the workplace.
Interested individuals should refer to the Machine Tool
Technology – Associate in Applied Science degree regarding
preparation for additional career opportunities in the machine
tool field.

Upon successful completion of this program, the student should
be able to:
• Analyze, interpret, and prepare mechanical drawings using
AutoCAD.
• Demonstrate proficiency in the use of handtools, semi-
precision, precision layout, and measuring tools.
• Operate the machine tools used in manufacturing according
to National Institute Metalworking Skills (NIMS) Level 1
standards.
• Write basic CNC milling and CNC turning programs to
industrial standards.

Required Program of Study

| First Year/Fall Term | MTT 120 Machine Tool Mathematics I | 3 |
| MTT 165 Machine Theory I | 3 |
| MTT 151 Introduction to Metalworking | 3 |
| | 9 |
| First Year/Winter Term | MTT 170 Machine Theory II | 3 |
| MTT 156 Turning Technology | 3 |
| | 6 |
| First Year/Spring Term | MTT 131 Engineering Graphics with Blueprint | 3 |
| MTT 125 Machine Tool Mathematics II | 3 |
| | 6 |
| Second Year/Fall Term | MTT 211 Milling Technology | 2 |
| MTT 135 Blueprint Reading II | 3 |
| EGR 106 Engineering Graphics II | 2 |
| | 8 |
| Second Year/Winter Term | MTT 221 Grinding Technology | 3 |
| MTT 140 Blueprint Reading III | 3 |
| MTT 265 CNC Fixture Design | 2 |
| | 8 |
| Second Year/Spring Term | MTT 240 Metrology | 3 |
| MTT 261 Basic CNC Programming Theory/Milling & Turning | 3 |
| | 6 |
| Total Credit Hours Required for the Program | 45 |

Students enrolling in daytime courses offered at the Berks Career
and Technology Center must present a Criminal Background
Check and Child Abuse Clearance prior to the first day of class.
For information contact the Coordinator of Special Programs at
(610) 607-6219.
MECHANICAL ENGINEERING TECHNOLOGY TRANSFER

Associate in Arts Degree

This program is designed to prepare students to enter a baccalaureate program in mechanical engineering technology on the junior level.

Upon successful completion of this program, the student should be able to:

• Demonstrate effective oral and written communication skills in the expression of scientific concepts.
• Apply mathematical methods to scientific problems.
• Apply basic scientific principles and concepts in the solution of problems and laboratory experiments.
• Demonstrate an ability to collect, organize, analyze, evaluate, and present data.
• Demonstrate an ability to retrieve data and search relevant literature.
• Demonstrate the ability to use specific scientific apparatus and instrumentation.
• Explain basic principles of statics and dynamics to mechanical systems.
• Explain basic principles of thermal phenomena, electricity, magnetism, and optics.
• Transfer to an accredited college or university.

See General Education Requirements

Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 220</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MAT 221</td>
<td>Calculus II</td>
</tr>
<tr>
<td>PHY 240</td>
<td>Physics I</td>
</tr>
<tr>
<td>PHY 245</td>
<td>Physics II</td>
</tr>
</tbody>
</table>

Minimum Credit Hours Required for the Program 60

Suggested Electives

Courses selected as electives will depend upon the institution to which you will transfer. It is essential that you consult with a Faculty Advisor for assistance in selecting courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 150</td>
<td></td>
</tr>
<tr>
<td>CHE 155</td>
<td></td>
</tr>
<tr>
<td>MAT 222</td>
<td></td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program 70

MECHATRONICS ENGINEERING TECHNOLOGY

Associate in Applied Science Degree

The Mechatronics Engineering Technology program prepares students for careers as engineering technicians in diversified manufacturing. Students gain knowledge and skills in blueprint reading, CAD drawing, mechanics, pneumatics, hydraulics, electricity, motors, motor control, programmable logic controls, robotics and motion control, process control, instrumentation and computer integrated manufacturing. Emphasis is placed on predictive maintenance, troubleshooting and quality assurance. College credit may be granted through Dual Enrollment or Tech Prep articulation agreements between RACC and approved secondary schools.

Upon successful completion of this program, the student should be able to:

• Demonstrate effective technical writing skills.
• Analyze and interpret electric schematic, architectural, and industrial prints.
• Demonstrate proficiency in the use of various hand and power tools used in equipment maintenance and repair.
• Operate, troubleshoot and repair commercial mechanical, electrical, fluid power, electronic, robotic and integrated manufacturing systems.
• Interface and integrate manufacturing components and unit operations into useful systems.
• Develop and implement project plans that integrate electrical systems, mechanical systems, control systems and computer systems.

Required Program of Study

First Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 102 College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td>MAT 165 Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>PHY 150 Applied Physics</td>
<td>4</td>
</tr>
<tr>
<td>MET 100 Introduction to Shop Machinry</td>
<td>1</td>
</tr>
<tr>
<td>MET 110 Manufacturing Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MET 120 Industrial Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>MET 130 Industrial Electrical Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 121 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110 Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MET 140 Introduction to PLCs</td>
<td>4</td>
</tr>
<tr>
<td>MET 150 Industrial Mechanics II</td>
<td>4</td>
</tr>
<tr>
<td>MET 160 Rotating Electrical Machines</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NET 125 Installation &amp; Maintenance of PC Hardware</td>
<td>3</td>
</tr>
<tr>
<td>COM 141 Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MET 200 Robotics &amp; Motion Control</td>
<td>4</td>
</tr>
<tr>
<td>MET 210 Process Control &amp; Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>MET 220 Advanced PLCs</td>
<td>4</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 130 The Environment</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125 The Individual &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>HUM — Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>MET 230 Integrated Manufacturing Systems</td>
<td>3</td>
</tr>
<tr>
<td>MET 240 Mechatronics Application Project</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program 70

MEDICAL LABORATORY TECHNICIAN

Associate in Applied Science Degree

This curriculum is intended primarily to educate technicians for work in clinical, diagnostic laboratories. Medical Laboratory Technicians perform tests under the direction of a physician who specializes in diagnosing the causes and nature of disease. Medical Laboratory Technicians also work under the supervision of scientists doing research on new drugs or the improvement of laboratory techniques. Graduates may seek employment with hospitals, independent laboratories, physicians, clinics, public health agencies, pharmaceutical firms, research institutions and industrial laboratories. This program is fully accredited by the National Accrediting Agency for Clinical Laboratory Science. Graduates are therefore eligible to take national certifying exams to become registered Medical Laboratory Technicians and
Clinical Laboratory Technicians. **College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools. Please refer to Selective Admissions Procedures.**

Upon successful completion of the program, the entry level Medical Laboratory Technician should be able to:

- Follow established procedures for collection and processing biological specimens for analysis and perform assigned analytical tests or procedures.
- Recognize factors that affect measurements and results and take appropriate action according to predetermined protocols; recognize abnormal results, correlate them with disease processes and refer them to designated supervisory personnel.
- Operate instruments within the scope of training utilizing established protocols and quality control checks, recognizing equipment malfunctions and notifying supervisory personnel when appropriate.
- Report information such as test results, reference range and specimen requirements to authorized sources.
- Perform routine quality control and maintain accurate records. Recognize out-of-control results and notify supervisory personnel.
- Demonstrate a professional attitude in interpersonal communication skills with patients, peers, supervisors, other health care professional, and the public.

**Required Program of Study**

**First Term**
- COM 121 English Composition 3
- BIO 250 Anatomy and Physiology I 4
- MAT 110 Algebra II 3
- CHE 110 Introduction to the Laboratory 1
- ORI 102 College Success Strategies 2

**Second Term**
- CHE 150 Chemistry I 4
- BIO 255 Anatomy and Physiology II 4
- MLT 120 Basic Immunology 2
- COM 131 Composition and Literature 3
- or
- COM 141 Technical Writing 3

**Third Term**
- CHE 220 Introduction to Organic Chemistry 5
- HUM - - Humanities Elective 3
- BIO 280 Microbiology 4

**Fourth Term**
- CHE 275 Instrumental Analysis 4
- MLT 211 Clinical Laboratory Techniques 3
- SOC 125 The Individual and Society (3)
- or
- SOC 130 Sociology (3)
- or
- PSY 130 General Psychology (3)
- HEA 220 Clinical Implications of Laboratory Tests 1

**Fifth Term**
- MLT 220 Clinical Hematology 4
- MLT 221 Clinical Chemistry 4
- MLT 222 Clinical Urinals 1

**Sixth Term**
- MLT 230 Clinical Blood Banking & Immunology 4
- MLT 231 Clinical Microbiology 4
- MLT 232 Clinical Coagulation 1
- MLT 233 Clinical Serology 10

Total Credit Hours Required for the Program 68

**MEDICAL TECHNOLOGY TRANSFER - RETIRE**

**NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.**

**Associate in Arts Degree**

This program is designed to prepare the student to enter a baccalaureate program in Medical Laboratory Technology on the junior level.

**See General Education Requirements**

**Major Requirements**
- BIO 150 Biology I 4
- CHE 150 Chemistry I 4
- CHE 155 Chemistry II 4
- MAT 180 Precalculus 3

**Suggested Electives**

Courses selected as electives will depend upon the institution to which you will transfer. It is essential that you consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

**Minimum Credit Hours Required for the Program 60**

**MEDICAL SECRETARY**

**Associate in Applied Science Degree**

The Medical Secretary program is designed to provide students with the competencies necessary to obtain employment as medical secretaries or medical transcriptionists. Graduates are prepared to work in doctors’ offices, hospitals, or clinics, the medical department of a large industrial firm or insurance company, or the offices of distributors of pharmaceutical products, surgical instruments, or hospital supplies. **College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.**

Upon successful completion of this program, the students should be able to:

- Demonstrate effective communication skills in writing and speaking in a business environment.
- Apply math operations to solve fundamental business problems.
- Demonstrate proficiency in keyboarding of business letters, memos, reports, and tables at a high level of speed and accuracy.
- Demonstrate a high degree of accuracy in applying correct grammar, usage, and style when transcribing documents from dictated audio tapes that use medical terminology.
- Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
• Transcribe from various kinds of original communication, such as handwritten copy, printed copy, and voice-recorded dictation.
• Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
• Apply principles of supervision and management in order to obtain maximum productivity from computerized systems in both traditional and automated offices, with appropriate emphasis on people, procedures, and equipment.
• Work independently, with others, or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes, and work habits that contribute to organizational goals.
• Use appropriate office procedures in the areas of records information management, calculator, telephone communications, incoming and outgoing mail, meetings and conferences, travel arrangements, and simulated projects.
• Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
• Recognize the changing nature of technology and adapt to new equipment and procedures while retaining the most appropriate traditional office practices.
• Use word processing, spreadsheet, database, presentation, and Internet skills to complete office tasks.

**MEDICAL SECRETARY**

**NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.**

**College Credit Certificate**

The Medical Secretary Certificate program is designed to provide students who already possess advanced secretarial skills with the competencies necessary to obtain employment as medical secretaries or medical transcriptionists. All course work may later be applied to an Associate in Applied Science degree if the student desires. Prior secretarial experience is required for entry to this program.

Upon successful completion of this program, the students should be able to:
• Demonstrate effective written communication skills in writing and speaking in a business environment.
• Apply math operations to solve fundamental business problems.
• Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
• Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
• Work independently, with others, or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes, and work habits that contribute to organizational goals.
• Use appropriate office procedures in the areas of records information management, calculator, telephone communications, incoming and outgoing mail, meetings and conferences, travel arrangements, and simulated projects.
• Demonstrate a high degree of accuracy in applying correct grammar, usage, and style when transcribing documents from dictated audio tapes that use medical terminology.
• Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.

**Required Program of Study**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Term</strong></td>
<td>BUS 105</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 110</td>
<td>Keyboarding I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>11</td>
</tr>
<tr>
<td><strong>Second Term</strong></td>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MGT 140</td>
<td>Administrative Office Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 111</td>
<td>Keyboarding II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>12</td>
</tr>
<tr>
<td><strong>Third Term</strong></td>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 112</td>
<td>Keyboarding III</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 120</td>
<td>Machine Dictation and Transcription</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>9</td>
</tr>
<tr>
<td><strong>Fourth Term</strong></td>
<td>HUM 123</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 212</td>
<td>Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 213</td>
<td>Word Processing I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 240</td>
<td>Medical Terminology and Transcrip.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>12</td>
</tr>
<tr>
<td><strong>Fifth Term</strong></td>
<td>OFT 210</td>
<td>Speedwriting I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 214</td>
<td>Word Processing II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 241</td>
<td>Advanced Medical Transcription</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SOC 125</td>
<td>The Individual and Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>12</td>
</tr>
<tr>
<td><strong>Sixth Term</strong></td>
<td>CAR 105</td>
<td>Professionalism on the Job</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>OFT 211</td>
<td>Speedwriting II &amp; Business Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 242</td>
<td>Medical Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OFT 290</td>
<td>Cooperative Education I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total Credit Hours Required for the Program</strong></td>
<td></td>
<td>66</td>
<td></td>
</tr>
</tbody>
</table>

The following courses qualify as a Business Elective: ACC 105, ACC 110, BUS 100, BUS 220, BUS 230, OFT 210, OFT 211.
MEDICAL SECRETARIAL SKILLS

NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.

Office Technology Diploma

The Medical Secretarial Skills Diploma designed to provide students who already possess advanced secretarial skills with the competencies necessary to obtain employment as medical secretaries or medical word processing specialists. Prior secretarial experience is required for entry to this program.

Upon successful completion of this program, the students should be able to:
- Use word processing, spreadsheet, database, presentation, and Internet skills to complete office tasks.
- Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
- Demonstrate a high degree of accuracy in applying correct grammar, usage, and style when transcribing documents from dictated audio tapes that use medical terminology.
- Proofread and edit typcd/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
- Work independently, with others, or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes, and work habits that contribute to organizational goals.
- Use appropriate office procedures in the areas of records information management, calculator, telephone communications, incoming and outgoing mail, meetings and conferences, travel arrangements, and simulated projects.
- Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
- Work independently, with others, or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes, and work habits that contribute to organizational goals.

Required Program of Study

First Session

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 213</td>
<td>Word Processing I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 105</td>
<td>Business English</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Session

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 214</td>
<td>Word Processing II</td>
<td>3</td>
</tr>
<tr>
<td>OFT 240</td>
<td>Medical Terminology and Transcription</td>
<td>3</td>
</tr>
</tbody>
</table>

Third Session

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 212</td>
<td>Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>OFT 241</td>
<td>Advanced Medical Transcription</td>
<td>3</td>
</tr>
</tbody>
</table>

Fourth Session

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 210</td>
<td>Speedwriting I</td>
<td>3</td>
</tr>
<tr>
<td>OFT 242</td>
<td>Medical Office Procedures</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Diploma 21

MEDICAL TRANSCRIPTIONIST

Medical Transcriptionist Diploma

The Medical Transcriptionist Diploma Program is designed to provide students with the skills necessary to obtain employment as medical transcriptionists. Graduates are prepared to work in doctors’ offices, hospitals or clinics with the option of transcribing at home. All course work may later be applied to a Certificate or an Associate in Applied Science degree if the student desires.

Upon successful completion of this program, the students should be able to:
- Demonstrate proficiency in keyboarding of business letters, memos, reports, and tables at a high degree of speed and accuracy.
- Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
- Transcribe from various kinds of original communication, such as handwritten copy, printed copy, and voice-recorded dictation.
- Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
- Work independently, with others, or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes, and work habits that contribute to organizational goals.
- Demonstrate a high degree of accuracy in applying correct grammar, usage, and style when transcribing documents from dictated audio tapes that use medical terminology

Required Program of Study

Fall Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 110</td>
<td>Keyboarding I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 105</td>
<td>Business English</td>
<td>3</td>
</tr>
</tbody>
</table>

Winter Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 111</td>
<td>Keyboarding II</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 112</td>
<td>Keyboarding III</td>
<td>3</td>
</tr>
<tr>
<td>OFT 120</td>
<td>Machine Dictation &amp; Transcription</td>
<td>3</td>
</tr>
</tbody>
</table>

Fall Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 240</td>
<td>Medical Terminology &amp; Transcription</td>
<td>3</td>
</tr>
</tbody>
</table>

Winter Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 241</td>
<td>Advanced Medical Transcription</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Diploma 24

NURSING

Associate in Applied Science Degree

The Associate Degree Nursing Program prepares students for positions as beginning staff level nurses in acute and long term care facilities. Upon successful completion of the program, students will receive an Associate in Applied Science (AAS) degree. The graduate will be eligible to sit for the state licensure examination (NCLEX-RN) to become a registered nurse. Nursing students attend classes on the college campus. Selected clinical learning experiences are provided at a variety of health care agencies with direct guidance of the nursing faculty. The purpose of these experiences is to provide the student with the opportunity to apply classroom learning in direct patient care situations. The nursing curriculum is approved by the State Board of Nursing of the Commonwealth of Pennsylvania, and accredited by the National League for Nursing Accreditation Commission. College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools. Please refer to Selective Admissions Procedures.

Upon successful completion of the program the Associate Degree Nurse graduate should be prepared to:
- Apply expanding knowledge base to evaluate human responses which reflect health status of clients of any age with a focus on adults.
- Provide all clients with safe nursing care using the nursing process in a variety of health care settings.
• Manage care for a group of clients through collaboration with members of the health care team.
• Integrate professional standards and values into the practice of nursing. Exemplify effective communication skills when providing care and when advocating for client, nursing and self.

Required Program of Study

**First Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>BIO 250</td>
<td>Anatomy and Physiology I**</td>
<td>4</td>
</tr>
<tr>
<td>NUR 120</td>
<td>Nursing I</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Second Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 131</td>
<td>Composition and Literature</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 141</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>BIO 255</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>NUR 130</td>
<td>Nursing II</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Third Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 150</td>
<td>Foundations of Math</td>
<td>3</td>
</tr>
<tr>
<td>CHE 150</td>
<td>Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 280</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>NUR 140</td>
<td>Nursing III</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

**Fourth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 130</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 130</td>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>NUR 220</td>
<td>Nursing IV</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Fifth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 290</td>
<td>Nursing V</td>
<td>6</td>
</tr>
<tr>
<td>HUM <strong>-</strong></td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**Sixth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 240</td>
<td>Nursing VI</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credit Hours Required for the Program</strong></td>
<td><strong>69</strong></td>
</tr>
</tbody>
</table>

* Sixth Term is full time
** This course fulfills the natural/physical sciences requirement.
*** The required placement test result for math should be Algebra II. If the student does not place at the Algebra II level, then he/she must take math through and including Algebra I prior to the first nursing clinical course.

PRACTICAL NURSING

College Credit Certificate

The Practical Nursing certificate program is full-time and twelve months in length. It prepares the student to provide direct client care in all settings where nursing takes place under the supervision of a Registered Nurse, licensed physician or licensed dentist. The graduate will participate in assessment, planning, implementation and evaluation of nursing care in cooperation with other members of the health care team. Upon graduation students are eligible to take the NCLEX-PN licensing examination. The Practical Nursing Program is approved by the State Board of Nursing of the Commonwealth of Pennsylvania and accredited by the National League for Nursing Accreditation Commission. College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools. Please refer to Selective Admissions Procedures.

Upon successful completion of the Practical Nursing Program, the graduate will be able to:

• Provide safe nursing care along with physical comfort and psychological and spiritual support by utilizing the nursing process.
• Practice effective communication techniques in settings with clients, clients’ families and members of the health care team.
• Seek self-improvement and growth by active participation in education and vocational development.
• Function within the legal and ethical parameters of the law governing practical nursing.

Required Program of Study

**First Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNP 110</td>
<td>Body Structure &amp; Function</td>
<td>3</td>
</tr>
<tr>
<td>PNP 115</td>
<td>Medical/Surgical Nursing I for the Practical Nurse</td>
<td>1</td>
</tr>
<tr>
<td>PNP 120</td>
<td>Nursing Skills I for the Practical Nurse</td>
<td>2</td>
</tr>
<tr>
<td>PNP 122</td>
<td>Nursing Skills II for the Practical Nurse</td>
<td>3</td>
</tr>
<tr>
<td>PNP 125</td>
<td>Contemporary Practical Nursing I</td>
<td>1</td>
</tr>
<tr>
<td>PNP 130</td>
<td>Nutrition for Practical Nursing</td>
<td>1</td>
</tr>
<tr>
<td>PNP 135</td>
<td>Community Issues in Practical Nursing</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

**Second Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNP 140</td>
<td>Pharmacology for Practical Nursing</td>
<td>3</td>
</tr>
<tr>
<td>PNP 145</td>
<td>Medical/Surgical Nursing II for the Practical Nurse</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>11</strong></td>
</tr>
</tbody>
</table>

**Third Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNP 150</td>
<td>Growth &amp; Development for Practical Nursing</td>
<td>1</td>
</tr>
<tr>
<td>PNP 155</td>
<td>Maternity Care for Practical Nursing</td>
<td>3</td>
</tr>
<tr>
<td>PNP 160</td>
<td>Pediatric Care for Practical Nursing</td>
<td>3</td>
</tr>
<tr>
<td>PNP 165</td>
<td>Medical/Surgical Nursing III for the Practical Nurse</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>11</strong></td>
</tr>
</tbody>
</table>

**Fourth Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNP 170</td>
<td>Medical/Surgical Nursing IV for the Practical Nurse</td>
<td>7</td>
</tr>
<tr>
<td>PNP 175</td>
<td>Contemporary Practical Nursing II</td>
<td>1</td>
</tr>
<tr>
<td>PNP 180</td>
<td>Intravenous Therapy for Practical Nursing</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**Total Credit Hours Required for the Program**

44

PNP is full-time only.
PRE-LAW/PUBLIC ADMINISTRATION TRANSFER PROGRAM

Associate in Arts Degree
This program is designed to prepare the student to enter a baccalaureate program in Pre-Law on the junior level.

Upon successful completion of this program, the student should be able to:
- Identify and analyze sources of information and propaganda in the United States.
- Identify and describe the concept of evolutionary democracy and the development of the federal system of government in the United States.
- Explain the types of local governments in the United States and describe what they do, problems facing them, and new approaches these governments are developing to do the tasks in their charge.
- Compare the characteristics of a democracy to a dictatorship and analyze the political system of the United States.
- Summarize the elements and characteristics of interpersonal communication.
- Transfer to an accredited college or university.

See General Education Requirements

Major Requirements
HIS 110 History of the United States I 3
or HIS 115 History of the U.S. II 3
LAW 150 Legal Procedures 3
POS 130 American Government 3
POS 135 State & Local Government 3
PSY 120 Interpersonal Relations & Communications 3

Suggested Electives
Courses selected as electives will depend upon the institution to which you will transfer. It is essential that students consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

ANT 135 HIS 115 PSY 130 SOC 210
ANT 140 HIS 120 PSY 235 SOC 220
BUS 230 HIS 125 SOC 120 SOC 225
ECO 250 HIS 130 SOC 125 SOC 230
GEO 101 LAW 185 SOC 130 SST 110
HIS 110 PSY 232

Minimum Credit Hours Required for the Program 60

PSYCHOLOGY TRANSFER PROGRAM

Associate in Arts Degree
This program is designed to prepare the student to enter a baccalaureate program in Psychology on the junior level.

See General Education Requirements

Required Program of Study

First Term
ORI 102 College Success Strategies 2
COM 121 English Composition 3
ECE 115 Creative Art for the Developing Child 3
ECE 140 Health, Safety and Nutrition in Early Childhood Education 3

Second Term
PSY 120 Interpersonal Relations & Communications 3
ECE 125 Introduction to Early Childhood Education 3
PSY 130 General Psychology 3
SOC 220 The Family 3

Third Term
ECE 120 Observation and Interpretation of Child Behavior 3
ECE - Elective 3
ECE 150 Early Childhood Practicum 3

Total Credit Hours Required for the Program 32

Suggested Electives
ECE 145 In-home Childcare/Professional Nanny 3
ECE 227 Infant/Toddler Care and Education 3
ECE 240 School-Age Childcare 3

PROFESSIONAL CHILDCARE

College Credit Certificate
This program is designed for individuals seeking employment as child care aides, family child care providers, nannies, and preschool teacher aides. Credits are transferable to the Associate Degree in Early Childhood Education. After obtaining an A.A.S. in either the Teaching or the Management option and working in the child care field for two years, graduates can seek employment as teachers in child care centers. Many courses are transferable to four-year institutions.

Upon successful completion of this program, the student should be able to:
- Plan and set up an environment designed to support and encourage the development of the creative process in inclusive Early Care and Education settings.
- Employ appropriate, observable assessment and behavior guidance techniques in inclusive early care and education settings.
- Analyze and relate historical, social, economic, and philosophic basis for current practice and trends in early childhood education.
- Develop and implement health, safety, and nutrition policies that comply with regulatory standards.
- Apply knowledge of infant/toddler development including the unique program needs to develop age appropriate curriculum and environment.
- Utilize the Code of Ethics for Early Childhood Education to demonstrate the development of professional attitude.
- Utilize effective communication skills with children, colleagues, supervisors, and parents.

Required Program of Study

First Term
BUS 230 HIS 125 GEO 101 SST 110 3
ECE 115 PSY 130 SOC 120 3
ECE 125 PSY 130 SOC 120 3
ECE 140 PSY 130 SOC 230 3

Total Credit Hours Required for the Program 15

Suggested Electives
PSY 120 Interpersonal Relations & Communication 3
ECE 125 Introduction to Early Childhood Education 3
PSY 130 General Psychology 3
SOC 220 The Family 3

Minimum Credit Hours Required for the Program 60
• Apply language skills learned to interpersonal relationships and intra-personal awareness.
• Demonstrate knowledge of the relationship between psychology and physical health.
• Analyze physical, cognitive, and social-emotional development of young children.
• Identify the various theories that explain personality development.
• Summarize the basic features of research methods in psychology.
• Transfer to an accredited college/university.

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 120</td>
<td>Interpersonal Relations &amp; Communications</td>
<td>3</td>
</tr>
<tr>
<td>PSY 130</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 208</td>
<td>Development Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>PSY 220</td>
<td>Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>PSY 230</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Suggested Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 135</td>
<td>LAW 150</td>
<td></td>
</tr>
<tr>
<td>ANT 140</td>
<td>MAT 210</td>
<td></td>
</tr>
<tr>
<td>BIO 120</td>
<td>POS 130</td>
<td></td>
</tr>
<tr>
<td>BIO 270</td>
<td>POS 135</td>
<td></td>
</tr>
<tr>
<td>HMS 110</td>
<td>PSY 210</td>
<td></td>
</tr>
<tr>
<td>HMS 125</td>
<td>PSY 212</td>
<td></td>
</tr>
<tr>
<td>HMS 240</td>
<td>PSY 214</td>
<td></td>
</tr>
</tbody>
</table>

**RESPIRATORY CARE**

**Associate in Applied Science Degree**

The Associate’s Degree program in Respiratory Care prepares the student to assume responsible positions as part of the Health Care team. The graduate will be eligible to sit for the National Registry Examination, administered by the National Board for Respiratory Care (N.B.R.C.). Respiratory Care students participate in various classroom, laboratory and clinical experiences. The laboratory provides students the opportunity for hands-on experience in preparation for clinical practicum. The classroom courses give the student the foundational knowledge in Respiratory Care. The Respiratory Care program is accredited by the Committee on Accreditation for Respiratory Care (COARC) in cooperation with the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and Council for Higher Education Accreditation (CHEA). College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.

Upon successful completion of this program, the student should be able to:

• Provide, under medical direction, treatment, management, diagnostic evaluation, and care to patients with deficiencies and abnormalities of the cardiorespiratory system.
• Administer the therapeutic use of the following: medical gases and administration apparatus, environmental control systems, humidification, aerosols, medications, ventilatory support, bronchopulmonary resuscitation and airway management.
• Demonstrate behavior consistent with acceptable professional conduct standards, such as appearance, quality of work, quantity of work, continuing education, human relations skills, leadership skills, reading skills, writing skills and verbal communication skills.

**Required Program of Study for 2007**

**Term 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td>BIO 250</td>
<td>Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>RES 150</td>
<td>Respiratory Care I</td>
<td>5</td>
</tr>
<tr>
<td>RES 200</td>
<td>Cardiopulmonary Anatomy &amp; Physiology</td>
<td>1</td>
</tr>
<tr>
<td>RES 212</td>
<td>Pharmacology</td>
<td>2</td>
</tr>
</tbody>
</table>

**Term 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 255</td>
<td>Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 110</td>
<td>Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 130</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual &amp; Society</td>
<td>8</td>
</tr>
<tr>
<td>RES 227</td>
<td>Respiratory Care 2</td>
<td></td>
</tr>
<tr>
<td>RES 150</td>
<td>Respiratory Care I (continued)</td>
<td>18</td>
</tr>
</tbody>
</table>

**Term 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RES 227</td>
<td>Respiratory Care 2 (continued)</td>
<td>8</td>
</tr>
</tbody>
</table>

**CONTINUE WITH PROGRAM OF STUDY 2008**

**STARTING AT SUMMER SESSION**

**Required Program of Study 2008**

**Semester 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
<tr>
<td>BIO 250</td>
<td>Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>RES 150</td>
<td>Respiratory Care I</td>
<td>5</td>
</tr>
<tr>
<td>RES 200</td>
<td>Cardiopulmonary Anatomy &amp; Physiology</td>
<td>1</td>
</tr>
<tr>
<td>RES 212</td>
<td>Pharmacology</td>
<td>2</td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 255</td>
<td>Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>MAT 110</td>
<td>Algebra II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 130</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual &amp; Society</td>
<td>8</td>
</tr>
<tr>
<td>RES 227</td>
<td>Respiratory Care 2</td>
<td></td>
</tr>
</tbody>
</table>

**Summer Session**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RES 227</td>
<td>Respiratory Care 3</td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 280</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>COM 131</td>
<td>Composition &amp; Literature</td>
<td>3</td>
</tr>
<tr>
<td>COM 141</td>
<td>Technical Writing</td>
<td></td>
</tr>
<tr>
<td>RES 255</td>
<td>Respiratory Care 4</td>
<td>10</td>
</tr>
</tbody>
</table>

**Semester 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>RES 265</td>
<td>Respiratory Care 5</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total Credit Hours Required for the Program**

70

**PLEASE NOTE:** These programs can be pursued on a part-time basis. Appropriate placement test scores, or the completion of certain developmental courses, are required for all programs of study. Additional prerequisites may be necessary for some courses and can be found in the course descriptions section of the catalog. It is recommended that students confer with their advisor when selecting electives.
RETAIL MANAGEMENT CERTIFICATE.  

NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.

College Credit Certificate

The Retail Management certificate program is designed to prepare individuals for a career in retailing or wholesaling or to strengthen the skills and knowledge of individuals who are working in the field. Career opportunities include sales manager, department manager, store manager, or assistant manager. All coursework may later be applied to an Associate in Applied Science degree if the student desires.

Upon successful completion of the program, the student should be able to:

- Apply business management principles to analyze problems and make decisions.
- Apply human resources management principles to analyze problems and make decisions concerning human resources.
- Apply supervision skills.
- Apply the methods and tools of modern retail management.
- Utilize the methods and tools of sales.
- Utilize a personal computer to prepare documents using word processing, spreadsheet, and database software and to perform basic navigation of the Internet.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Develop a marketing plan for a product, using the fundamental elements of the marketing mix.
- Apply the law to recognize legal implications of business and personal transactions and occurrences.

Required Program of Study

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 210</td>
<td>Principles of Sales</td>
<td>3</td>
</tr>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUS 220</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 230</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>IFT 110</td>
<td>Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>MGT 100</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 200</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 210</td>
<td>Supervisory Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 220</td>
<td>Retail Management</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Certificate 37

Students should consult with an advisor to assure proper sequencing of courses.

SMALL BUSINESS MANAGEMENT  

NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.

College Credit Certificate

The Small Business Management certificate program is designed to strengthen the skills and knowledge of individuals wishing to own and/or operate a small business. Acquiring this expertise will allow the entrepreneur a competitive edge in the marketplace. All coursework may later be applied to the Associate in Applied Science degree if the student desires.

Upon successful completion of the program, the student should be able to:

- Utilize business management principles to analyze problems and make decisions.
- Apply human resources management principles to analyze problems and make decisions concerning human resources.
- Develop and implement a plan for starting a new, small business.
- Utilize a personal computer to prepare documents using word processing, spreadsheet, and database software and to perform basic navigation of the Internet.
- Prepare financial statements in accordance with generally accepted accounting principles and evaluate the results by performing basic financial statement analysis.
- Utilize financial tools and techniques to maximize a firm’s long-term value.
- Demonstrate effective communication skills in writing and speaking in a business environment.
- Develop a marketing plan for a product, using the fundamental elements of the marketing mix.
- Apply the law to recognize legal implications of business and personal transactions.

Required Program of Study

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 105</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACC 210</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUS 220</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Degree 60

SCIENCE TRANSFER PROGRAM

Associate in Science Degree

This program is designed to prepare the student to enter a baccalaureate program in chemistry, biological science or pre-professional curricula at the junior level.

Upon successful completion of this program, the student should be able to:

- Demonstrate effective oral and written communication skills.
- Apply mathematical methods to scientific problems.
- Apply basic scientific principles and concepts in the solution of problems and laboratory experiments.
- Demonstrate an ability to collect, organize, analyze, evaluate and present data.
- Demonstrate an ability to retrieve data and search relevant literature.
- Demonstrate the ability to use specific scientific apparatus and instrumentation.
- Explain basic scientific principles related to the behavior of matter and energy from the atomic level through the macroscopic level.
- Transfer to an accredited college or university.

See Associate in Science General Education Requirements

Electives

Students should choose 20-22 credits to round out their program. These might include additional math, science, humanities or social science classes as suggested by the transfer institution. It is essential that students meet with a Faculty Advisor for assistance in selecting courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

Minimum Credit Hours Required for the Degree 60
BUS 230 Business Law 3
IFT 110 Microcomputer Applications 3
COM 121 English Composition 3
MGT 100 Principles of Management 3
MGT 200 Human Resources Management 3
MGT 220 Small Business Management 3
ORI 102 College Success Strategies 2
- - - - Business Elective   3

Total Credit Hours Required for the Certificate 38

Students should consult with an advisor to assure proper sequencing of courses.

The following courses qualify as a Business Elective: ACC 110, ACC 220, ACC 230, BUS 210, IFT 120, MGT 210, MGT 220, MGT 240, MGT 250, MGT 255, MGT 260, MGT 290 with CAR 105.

SOCIAL WORK TRANSFER PROGRAM
Associate in Arts Degree
This program is designed to prepare the student to enter a baccalaureate program in Social Work on the junior level.

See General Education Requirements

Courses selected as electives will depend upon the institution to which you will transfer. It is essential that students consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

Upon successful completion of this program, the student should be able to:

• Summarize the history and nature of social work in the U. S.
• Analyze and articulate cultural values and contributions of diverse groups.
• Identify models of human development and group dynamics.
• Develop effective use of interpersonal skills and relationships.
• Transfer to an accredited college/university offering the Bachelor of Social Work (B.S.W.) degree.

Major Requirements

ANT 140 Cultural Anthropology 3
PSY 130 General Psychology 3
SOC 130 Sociology 3
HMS 110 Introduction to Human Services 3
HMS 240 Poverty and Social Welfare Policy 3

Suggested Electives

ANT 135 COM 151 POS 135 PSY 225 SPA 101
ANT 200 HUM 271 PSY 120 PSY 235 SPA 102
ANT 255 HUM 275 PSY 210 PSY 240 SST 110
BIO 120 LAW 150 PSY 212 SOC 210
BIO 270 MAT 210 PSY 214 SOC 220
CHE 120 POS 130 PSY 216 SOC 230

SOCIOLGY/ANTHROPOLOGY
TRANSFER PROGRAM
Associate in Arts Degree
This program is designed to prepare the student to enter a baccalaureate program in Sociology/Anthropology/Social Sciences, with a concentration in Sociology or Anthropology, on the junior level.

See General Education Requirements

Courses selected as electives will depend upon the institution to which you will transfer. It is essential that students consult with a Faculty Advisor for assistance in selecting elective courses. However, it is the responsibility of students to meet with an admissions representative from the four-year institution to determine its transfer policies.

Sociology Concentration

Upon successful completion of this program, the student should be able to:

• Explain basic theory, methodology, and knowledge from the field of sociology.
• Illustrate key concepts in sociology including norm, social control, socialization, and deviance.
• Analyze social change processes utilizing various societies at various times as examples.
• Analyze cultural and social variations of family structure and the impact of the family on the individual.
• Identify current social issues and the role of social policy making in addressing social problems.
• Evaluate social problems, their causes, controls, and effects upon society.
• Utilize resources for keeping current with issues and trends in sociology.
• Apply ethical choices related to sociological research.
• Transfer to an accredited college or university.

Major Requirements

SOC 130 Sociology 3
SOC 210 Social Problems 3
SOC 220 The Family 3
ANT 140 Cultural Anthropology 3
PSY 120 Interpersonal Relations & Communications 3

Suggested Electives

ECO 250 SOC 291 ANT 245 GEO 101
SOC 125 SOC 299 ANT 250 SST 110
SOC 230 PSY 235 ANT 255 PSY 130
SOC 290 ANT 290 ANT 290 HUM 280

Anthropology Concentration

Upon successful completion of this program, the student should be able to:

• Describe the interrelated biological and sociocultural factors that have been proposed to explain the evolution of the human species.
• Analyze the wide range of adaptive responses by societies to differing environmental and societal pressures both past and present.
• Identify and explain how inequalities in wealth, status, and power are maintained in human societies.
• Discuss cross-cultural universals and differences in sexual and marriage practices and ideas about beauty.
• Explain the determinates of cross-cultural variation in expected (ideal) and observed (real) behavior.
• Discuss the various formal and informal methods of social control that exist in preindustrial, industrial, and postindustrial societies.
• Explain the importance of and differences that exist in both verbal and nonverbal communication in human societies.
• Compare, contrast, and evaluate supernatural and scientific explanations for the origin, function, and persistence of religious belief and practice in human societies.
• Identify, discuss, and contrast the major agents of socialization operating on individuals in non-Western and Western societies.
• Discuss the problems faced by native peoples as they attempt to cope with various aspects of the impact of modern western culture upon their traditional societies.
• Transfer to an accredited college or university.

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 135</td>
<td>Human Evolution: Physical Anthropology &amp; Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 140</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 210</td>
<td>Native Peoples of North America</td>
<td>3</td>
</tr>
<tr>
<td>ANT 245</td>
<td>Magic, Ritual &amp; Myth: The Anthropology of Religion</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANT 250</td>
<td>Magic, Ritual &amp; Myth: The Anthropology of Religion (Honors)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 130</td>
<td>Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Suggested Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 200</td>
<td>ECO 250</td>
<td>3</td>
</tr>
<tr>
<td>ANT 255</td>
<td>SOC 210</td>
<td>3</td>
</tr>
<tr>
<td>ANT 285</td>
<td>HIS 110</td>
<td>3</td>
</tr>
<tr>
<td>ANT 290</td>
<td>HIS 115</td>
<td>3</td>
</tr>
<tr>
<td>ANT 291</td>
<td>GEO 101</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Program of Study**

First Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 130</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual and Society</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
</tbody>
</table>

Second Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 125</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDU 130</td>
<td>Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>COM 141</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 131</td>
<td>Composition and Literature</td>
<td>3</td>
</tr>
<tr>
<td>PSY 216</td>
<td>Psychology of the Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>SST 110</td>
<td>Informative Technology for the Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Third Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 210</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ECE 120</td>
<td>Observation &amp; Interpretation of Child Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
</tr>
<tr>
<td>SPE 100</td>
<td>Introduction to Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Fourth Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 205</td>
<td>Accommodating Children with Exceptionalities in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>MAT 150</td>
<td>Foundations of Math</td>
<td>3</td>
</tr>
<tr>
<td>HUM - -</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>SPE 215</td>
<td>Assistive Technology for Children with Exceptionalities</td>
<td>3</td>
</tr>
</tbody>
</table>

Fifth Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 210</td>
<td>The Paraeducator Professional</td>
<td>3</td>
</tr>
<tr>
<td>SOC 220</td>
<td>The Family</td>
<td>3</td>
</tr>
<tr>
<td>PSY 120</td>
<td>Interpersonal Relations</td>
<td>3</td>
</tr>
<tr>
<td>SPE 220</td>
<td>Instructional Strategies for Children with Exceptionalities</td>
<td>3</td>
</tr>
</tbody>
</table>

Sixth Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 101</td>
<td>Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPE 250</td>
<td>Practicum in Special Education</td>
<td>6</td>
</tr>
</tbody>
</table>

Minimum Credit Hours Required for the Program 60

**SPECIAL EDUCATION PARAEDUCATOR**

**Associate in Applied Science Degree**

The Applied Science in Special Education degree will prepare students for employment as paraeducators (assistant) in classrooms serving special needs children ages 3 to 11. As paraeducators, graduates will be called upon to provide instructional support to teachers in a variety of ways including: instruction to individual or small groups of students, assisting students in working with computers, administering tests, and tutoring students. Graduates can seek employment in public school districts, Intermediate Units, and Private schools and agencies.

Upon successful completion of this program, the student should be able to:

• Differentiate the distinctions among the roles and responsibilities of professional and paraprofessional personnel.
• Communicate with colleagues, follow instructions and use problem-solving skills that will enable them to work as effective members of the instructional team.
• Summarize the law, both federal and state, and the importance of advocating for children with disabilities and their families.
• Utilize child guidance and group management methods that foster the development of self-control and self-discipline in children.
• Analyze the impact of heritages, life-styles, and value systems among the children and their families on learning and behavior.
• Identify risk factors that may prohibit or impede typical development.
• Analyze the value of serving children with disabilities in inclusive settings.
• Instruct students in academic subjects using lesson plans and instructional strategies developed by teachers or other professional support staff.
• Implement developmental and age appropriate instructional procedures and reinforcement techniques.
• Operate computers and use assistive technology and adaptive equipment that will enable students with special needs to participate more fully in general education.
• Evaluate the impact of socioeconomic issues, attachment, family structures, cultural factors, and biological influences.

**Required Program of Study**

First Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 130</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>Individual and Society</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
</tbody>
</table>

Second Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 125</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDU 130</td>
<td>Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>COM 141</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COM 131</td>
<td>Composition and Literature</td>
<td>3</td>
</tr>
<tr>
<td>PSY 216</td>
<td>Psychology of the Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>SST 110</td>
<td>Informative Technology for the Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Third Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 210</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ECE 120</td>
<td>Observation &amp; Interpretation of Child Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
</tr>
<tr>
<td>SPE 100</td>
<td>Introduction to Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Fourth Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 205</td>
<td>Accommodating Children with Exceptionalities in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>MAT 150</td>
<td>Foundations of Math</td>
<td>3</td>
</tr>
<tr>
<td>HUM - -</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>SPE 215</td>
<td>Assistive Technology for Children with Exceptionalities</td>
<td>3</td>
</tr>
</tbody>
</table>

Fifth Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 210</td>
<td>The Paraeducator Professional</td>
<td>3</td>
</tr>
<tr>
<td>SOC 220</td>
<td>The Family</td>
<td>3</td>
</tr>
<tr>
<td>PSY 120</td>
<td>Interpersonal Relations</td>
<td>3</td>
</tr>
<tr>
<td>SPE 220</td>
<td>Instructional Strategies for Children with Exceptionalities</td>
<td>3</td>
</tr>
</tbody>
</table>

Sixth Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 101</td>
<td>Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPE 250</td>
<td>Practicum in Special Education</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program 68
WORD PROCESSING SPECIALIST

NO NEW ADMISSION IN THIS PROGRAM AT THIS TIME.

Associate in Applied Science Degree

The Word Processing Specialist program is designed to provide students with the terminology, concepts, skills, and procedures necessary for employment in a word processing center or a business or professional organization using word processing technology and equipment. Career possibilities include positions such as Word Processing Specialists, Word Processing Secretary, Word Processing Operator, Transcription Specialists, Text Editor, Correspondence Specialist, or Word Processing Coordinator or Supervisor. College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.

Upon successful completion of this program, the students should be able to:

• Demonstrate effective communication skills in writing and speaking in a business environment.
• Apply math operations to solve fundamental business problems.
• Utilize business and management terminology and principles to analyze problems and make decisions.
• Demonstrate proficiency in keyboarding of business letters, memos, reports, and tables at a high level of speed and accuracy.
• Demonstrate a high degree of accuracy in applying correct grammar, usage, and style when transcribing documents from dictated audio tapes.
• Apply basic language skills associated with the parts of speech, sentence formations, numerical expression, capitalization, punctuation, and word division rules to business correspondence.
• Transcribe from various kinds of original communication, such as handwritten copy, printed copy, and voice-recorded dictation.
• Proofread and edit typed/keyed copy, including transcription of machine dictation, with a high degree of accuracy and correctness.
• Apply principles of supervision and management in order to obtain maximum productivity from computerized systems in both traditional and automated offices, with appropriate emphasis on people, procedures, and equipment.
• Work independently, with others, or in self-directed work teams to demonstrate effective interpersonal and problem-solving skills, attitudes, and work habits that contribute to organizational goals.
• Use appropriate office procedures in the areas of records information management, calculator, telephone communications, incoming and outgoing mail, meetings and conferences, travel arrangements, and simulated projects.
• Demonstrate speedwriting skills to take notes from oral dictation and produce mailable copy.
• Recognize the changing nature of technology and adapt to new equipment and procedures while retaining the most appropriate traditional office practices.
• Use word processing, spreadsheet, database, presentation, and Internet skills to complete office tasks.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 105</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>OFT 110</td>
<td>Keyboarding I</td>
<td>3</td>
</tr>
<tr>
<td>ORI 102</td>
<td>College Success Strategies</td>
<td>2</td>
</tr>
</tbody>
</table>

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 110</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 140</td>
<td>Administrative Office Management</td>
<td>3</td>
</tr>
<tr>
<td>COM 121</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>OFT 111</td>
<td>Keyboarding II</td>
<td>3</td>
</tr>
</tbody>
</table>

Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 106</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>OFT 112</td>
<td>Keyboarding III</td>
<td>3</td>
</tr>
<tr>
<td>OFT 120</td>
<td>Machine Dictation and Transcription</td>
<td>3</td>
</tr>
</tbody>
</table>

Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 130</td>
<td>The Environment</td>
<td>3</td>
</tr>
<tr>
<td>HUM --</td>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>OFT 212</td>
<td>Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>OFT 213</td>
<td>Word Processing I</td>
<td>3</td>
</tr>
</tbody>
</table>

Fifth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFT 210</td>
<td>Speedwriting I</td>
<td>3</td>
</tr>
<tr>
<td>OFT 214</td>
<td>Word Processing II</td>
<td>3</td>
</tr>
<tr>
<td>OFT 250</td>
<td>Word Processing Transcription</td>
<td>3</td>
</tr>
<tr>
<td>SOC 125</td>
<td>The Individual and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Sixth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAR 105</td>
<td>Professionalism on the Job</td>
<td>1</td>
</tr>
<tr>
<td>OFT 251</td>
<td>Word Processing Procedures</td>
<td>3</td>
</tr>
<tr>
<td>OFT 290</td>
<td>Business Cooperative Education I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours Required for the Program 66

The following courses qualify as a Business Elective: ACC 105, ACC 110, BUS 100, BUS 220, BUS 230, OFT 210, OFT 211.
ACCOUNTING

ACC 100  Personal Finance  3
This course is an introduction to the basics of personal financial planning including budgeting, consumer awareness, home buying and selling, insurance, lending and borrowing, various types of investments, estate planning, and income tax strategies. This course is designed to help students make better use of the financial resources they have as well as to plan for a more successful future. Prerequisite: COM 061.  (Winter)

ACC 105  Financial Accounting  3
This course is designed to provide a conceptual introduction to financial accounting topics for business and accounting majors. Emphasis in the course is placed on using financial accounting information for decision making. Accounting theory of all commonly used accounts such as cash, investments, receivables, inventory, fixed assets, payables, bonds, and stocks are studied, as are accounting systems and controls, financial statement preparation, and analysis. Students will be introduced to the accounting cycle through computerized software. Prerequisite: IFT 110 (or concurrently), COM 051. Strongly recommended: BUS 110.  (Fall/Winter/Summer)

ACC 110  Managerial Accounting  3
Accounting techniques for managerial planning and control for all types of organizations, including non-profit, retail, wholesale, selling, and administrative situations in large and small businesses are included in this course. Product costing for manufacturing companies is also covered; however, emphasis is placed on the implications of the methods used for decision making. Topics covered include cost-volume-profit analysis, types of costs and cost behavior patterns, relevant costs for various types of decisions, budgeting, standard cost variances, responsibility accounting, capital project evaluation techniques, job order cost systems, and process cost systems. Students will solve various problems using microcomputers and spreadsheet software. Prerequisite: ACC 105, MAT 030.  (Winter/Spring)

ACC 120  Payroll Accounting  1
This course provides up-to-date instructions in the preparation of payroll records and tax returns. Students will be responsible for a practice set which includes all payroll activities for a small business including weekly payroll, computation and entries, and quarterly and annual tax returns using actual federal and state forms. Prerequisite: COM 061.  (Spring)

ACC 125  Accounting Principles I  3
This course focuses on providing beginning accounting students with the necessary technical background to prepare them for advanced study. Emphasis is placed on analyzing accounting transactions and preparing financial accounting information for the user. Topics include the study of cash, investments, receivables, inventory, fixed and intangible assets, payables, bonds, and stocks. Students will complete several practice sets. Prerequisite: ACC 105.  (Spring)

ACC 205  Intermediate Accounting I  3
This course provides an in-depth study of financial accounting topics including the conceptual framework for financial reporting and accounting principles, financial statement preparations and analysis, compound interest, annuities and present value, cash, receivables, and inventory valuations, property, plant and equipment, depreciation, and amortization of intangible assets. Prerequisite: ACC 110, ACC 125, COM 121 or permission of the instructor.  (Fall)

ACC 206  Intermediate Accounting II  3
This course is a continuation of Intermediate Accounting I. It is a study of current and contingent liabilities, long-term liabilities, capital stock, additional paid-in capital, retained earnings, earnings per share calculations, investments, pensions, leases, alternative means of income recognition, accounting for income taxes, and statement of cash flows. Prerequisite: ACC 205.  (Winter)

ACC 210  Financial Management  3
Basic terminology and evaluation techniques for the financial decisions required of all managers are emphasized in this course. Investment portfolios, risk, alternatives for both short- and long-term business financing, stock and bond markets, interest rates, dividend policies, forecasting, and project evaluation are all covered with the intent of exposing students to the required techniques for making the best decisions for a business’s continued success. Prerequisite: ACC 105 (or permission of the Instructor).  (Spring)

ACC 220  Accounting Information Systems  3
The primary purpose of this course is to provide an overview of automated accounting systems. Financial accounting systems are analyzed for file requirements, output, internal controls, and interaction with other systems. Internal controls over computer systems are also studied. Students will gain a hands-on computer experience using several integrated accounting packages. Prerequisite: ACC 105.  (Spring)

ACC 230  Federal Taxes  3
This course is the study of the federal tax system, withholding taxes, payroll taxes, self-employment taxes, and individual income taxes. Emphasis is given to the Internal Revenue Code for tax accounting for individuals and businesses. Also covered are special tax computations, tax credits, gains and losses, inventories and depreciation, as well as tax problem researching sources and preparation of returns. Prerequisite: ACC 105.  (Winter)
ANT 135 Human Evolution: Physical Anthropology & Archaeology 3
This is an introductory course to familiarize students with the methods and findings of Physical/Biological Anthropology and Archaeology. Interrelated biological and sociocultural factors that have been proposed to explain the evolution of the human species will be examined as well as the wide range of adaptive responses to differing environmental and societal pressures encountered by humans as they left their original homeland. Prerequisites: COM 051; COM 061. (Winter)

ANT 140 Cultural Anthropology 3
This introductory course familiarizes students with the concepts, methods, and findings of Cultural and Linguistic Anthropology. Cross-cultural study of adaptations to the environment, social institutions, and cultural practices is combined with a holistic examination of particular societies around the world. Prerequisites: COM 051; COM 061. (All)

ANT 200 Intercultural Communication (Honors) 3
Honors courses involve more in-depth study than non-honors courses and often involve exploratory learning, essay writing, collaborative activities and individualized research. This course examines how human beings communicate, and often mis-communicate, interculturally. It considers the ways such communication occurs not only through speech but also through gestures, posture, dress, facial expressions, distancing, use of time, and spatial organization. It further concerns the nature of ethnography and the relationship between language and culture. Prerequisites: COM 121; eligibility for the Honors Program. (TBA)

ANT 210 Native Peoples of North America 3
This course will examine theories regarding the origin of the native peoples of the United States, Canada, and Mexico (commonly called “Indians”) and compare and contrast the various cultural adaptations these populations have made to their changing social and physical environments from prehistoric times to the present. A final emphasis will focus on contemporary problems facing them and possible solutions to these problems. Prerequisite: COM 121. (Spring)

ANT 255 Interpreting Lives: Rites of Passage, Personal History, and the Life Cycle (Honors) 3
Same as HIS 255 & PSY 255. Honors courses involve more in-depth study than non-honors courses and often involve exploratory learning, essay writing, collaborative activities and individualized research. This interdisciplinary course considers the stages of life and their cross-cultural variation, including the rites of passage that mark transitions throughout the human life cycle. Further, the course examines how people construct and reaffirm their lives through the process of personal narrative. Students will be taught life history interview methods and guided to do independent research with an individual “tradition bearer”. Such life history research facilitates the coming to voice of women and minority people who are often ignored in standard historical writing. Prerequisite: eligibility for the Honors Program and COM 121. (TBA)

ART 111 Introduction to Drawing 3
This course introduces the basic principles of drawing. Emphasis is on studying the elements of design, developing the skills to use these concepts objectively and executing ideas on a two-dimensional surface. Students will be required to create independent works of art and to participate in field trips to museums and art galleries. Prerequisites: COM 051. (All)
ART 112  Drawing  3
This course is a continuation of the principles learned in Introduction to Drawing and will utilize black and white media. It will also introduce color as an element in drawing using the dry media of colored pencils and pastels. Drawing II focuses on the act of drawing as a process. Students will further their knowledge of the many different expressive qualities of drawing using direct observation and hands-on participation. Students will participate in field trips to museums and art galleries and write about those experiences. Prerequisite: ART 111. (TBA)

ART 113  Design  3
Students will explore the basic elements of art: line, form, color and texture. Both black and white and color media will be used in this course. Students will develop and analyze visual systems of order based on balance, variation, proportion, emphasis and rhythm. Presentation software skills will be learned and utilized in this course for design presentation purposes. Prerequisite: COM 051. (TBA)

ART 121  Painting  3
Students work with pastels to explore fundamental color theories. This dry medium affords many opportunities to further drawing skills while incorporating the challenges presented by color. Although creativity is encouraged, emphasis is on learning the basics. Prerequisites: COM 051; ART 111 or permission of the Instructor. (Spring)

ART 201  Art Appreciation  3
This course studies the nature of art and compares a variety of art expressions through observation and group interaction. Field trips to museums and exhibits are a part of the course. Prerequisite: COM 121. (All)

AMERICAN SIGN LANGUAGE  

ASL 100  American Sign Language I  3
This course will focus on the development of communication skills and cultural sensitivity necessary to communicate successfully with members of the deaf community. Students will be introduced to the study of American Sign Language. Students will begin to develop receptive and expressive skills in ASL and learn basic vocabulary and grammatical structure. Prerequisites: COM 021; COM 051. (TBA)

ASL 105  American Sign Language II  3
This course will focus on building and expanding the communication skills developed in the American Sign Language I course. Students will continue to develop their receptive and expressive skills in ASL, expand their vocabulary base, and learn more complicated sentence structures. Prerequisite: ASL 100. (TBA)

ASL 110  American Sign Language III  3
This course will focus on building and expanding the communication skills developed in the American Sign Language II course. Students will continue to develop their receptive and expressive skills in ASL, expand their vocabulary base and learn more complicated sentence structures. They will also learn how to talk about people in a more abstract way, how to talk about the environment outside of the classroom and how to discuss past events as opposed to telling what is happening currently. Prerequisite: ASL 105. (TBA)

ASL 115  American Sign Language IV  3
This course will focus on building and expanding the communication skills developed in the American Sign Language III course. Students will continue to develop their receptive and expressive skills in ASL, expand their vocabulary base and learn more complicated sentence structures. They will also learn appropriate cultural behaviors for directing and maintaining attention. Students will also learn strategies such as controlling the pace of a conversation and resuming conversations after an interruption. Prerequisite: ASL 110. (TBA)

BANKING  

BNK 100  Principles of Banking (1370)  3
This course touches on nearly every aspect of banking from the fundamentals of negotiable instruments to contemporary issues and development within the industry. After successful completion of this course, students will understand: full-service commercial banking as it affects the economy, community, business, and individuals; the three major functions of commercial banks and their interrelationship; the various products and services banks offer governments, businesses, individuals, and correspondents; demand and time deposits; types of bank loans and investments; liquidity, safety, and income; banking regulations and regulatory agencies. (Varies)

BNK 105  Economics For Bankers (2310)  3
This course introduces the student to the fundamental principles of economics. Special emphasis is placed on macroeconomics and topics of importance to you as a banker. The course covers the basics of economic theory and includes examples of the application of economics to banking. After successfully completing this course, you will be able to: interpret the economic indicators published in the media; relate basic principles of economic theory to the business cycle and business organization; describe the causes of inflation, its effects, and ways it is measured; compare and contrast economic systems; relate the fundamental concepts of the supply and demand theory and Keynesian economics. (Varies)

BNK 109  Business English (2602)  3
The Business English course covers all aspects of grammar usage, composition, spelling and vocabulary. The emphasis is strictly practical and business oriented. Proper communication is essential to succeeding in today's business world. Whether you are preparing a memo, a letter or an article for publication, the proper use of English is invaluable. (TBA)

BNK 115  Law & Banking: Applications (3670)  3
This course is an introduction to laws pertaining to secured transactions, letters of credit, and the bank collection process. After successful completion of this course, students will be able to: explain the concept of negotiability, analyze the concept of holder-in-due course status, describe the nature of primary and secondary contractual liability on an instrument, discuss the legal issues related to bank collections and check losses, define and explain the nature of a letter of credit and identify the issues related to secured transactions. (TBA)

BNK 120  Trust Business (8250)  3
This course provides students with an overview of the trust department, including how it fits into the bank's overall operations, the services it provides, and generally how those services are delivered. After successfully completing this course, students will be able to: explain the role of the trust department in a bank; describe the trust services that corporate and consumer customers receive; identify assets and ownership related to trust services. (TBA)

BNK 125  Trust Operations (8325)  3
In addition to providing the basic trust terminology, this course discusses the concepts and ideas that comprise the various trust operations.
functions and translates them into workable procedures. They include: the types of securities handled by a trust department, the kinds of investments typically made with trust account assets, why securities are owned, and how they are traded; the role and functions of the various participants in the securities industry; the responsibilities inherent in the fiduciary and agency relationships that a trust department has with its customers; the laws and regulations that define and circumscribe trust activities; the concepts of trust accounting and functions performed by a trust department; the internal controls, record keeping, and reporting requirements necessary in trust activities. (TBA)

BNK 139 Accounting Basics (1002) 3
Accounting Basics provides a complete foundation in general financial accounting through a hands-on, step-by-step, practical approach. After successful completion of this course, students will be able to: identify and explain business transactions and source documents, use a general journal and general ledger to record transactions, explain why and how accounts payable subsidiary ledgers are used, maintain employee earnings records and prepare and file the W-2 and W-3 forms. (TBA)

BNK 140 Accounting I (1000) 3
Accounting I emphasizes current practices of accounting procedures, and includes coverage of the latest principles established by the Financial Accounting Standards Board. After successful completion of this course, students will have a working knowledge of: the balance sheet and income statement; the accrual basis and the cash basis of accounting; all required journals, entries, and adjustments; internal control; the basic assumptions, principles, and modifying conventions of accounting; how inflation affects information in financial statements; characteristics of partnerships. (TBA)

BNK 150 Consumer Lending (7008) 3
This up-to-date, insider’s view of consumer lending offers essential information about the maze of regulations governing credit practices and reviews loan processing, cross-selling and collections. After successful completion of this course, students will be able to: identify components of the consumer installment credit market, describe various loan products, trace the lending process, apply credit math and loan pricing principles, recognize variables that affect loan structure and identify opportunities for cross-selling bank products. (Varies)

BNK 153 Microcomputer Applications in Banking (2090) 3
This course is designed to extend the world of computers with hands-on introduction to the basic windows commands, peripherals, definitions, software, hardware, as well as hands-on exercises relating to MicroSoft Word 6.0, Excel 5.0, Access 2.0 and PowerPoint 4.0. After successful completion of this course, students will be able to: design, save, and modify data base structures, add, delete, edit, retrieve records in the data file, create reports, charts and presentations using Access and PowerPoint. (TBA)

BNK 155 Commercial Lending (6350) 3
This course will give you the knowledge and skills to be an effective commercial lender. Commercial Lending covers both the technical side of lending and the important human relations skills all successful lenders must have. After successful completion of this course, students will be able to: explain why good human relations skills are critically important to the successful lending officer in many stages of the commercial lending process, identify the functions of the loan interview and credit investigation, describe how the borrower’s financing needs and business type can affect the structuring of a loan, list important elements of loan documents and describe their functions, name some warning signs of problem loans, and identify ways that you can prevent problem loans. (Varies)

BNK 185 Spanish for Bankers I (3130) 2
This course is designed to provide banking personnel with basic language skills in Spanish. After successful completion of this course, students will be able to: use common greetings and farewells, use basic words, expressions, vocabulary, phrases and sentences associated with banking. The student will also be able to understand and use numbers, monetary terminology, provide information to customers about opening an account and apply learned vocabulary associated with banking activities. (TBA)

BNK 210 Supervision (4310) 3
This course helps new or potential supervisors to become better managers by emphasizing broad perspectives and by combining fresh insights with the interpersonal relations required of today’s successful managers. Issues covered in class include: characteristics of effective management; setting objectives, decision making, and time management; training and professional development; communication and interpersonal skills; organizational behavior with groups; interviews, selection of employees, and treatment of conflicts; appraisal and compensation; grievances and conduct disciplinary actions; employee safety and health. (TBA)

BNK 220 International Banking (7110) 3
International Banking covers the fundamental, mainstay topics of international banking such as foreign exchange, collections, letters of credit, international financing agencies, documents used in international financial markets, and the Eurodollar market. The course will: describe the basic dynamics and overall complexities of the international arena; identify the various international services banks provide; explain international lending concepts, credit principles, and risk factors; describe the various legal and regulatory constraints/requirements that dominate international finance; explain the history and basic concepts of the Eurodollar market; identify the various international lending agencies and their roles in international finance; define basic international banking terms including Incoterms. (TBA)

BNK 222 Residential Mortgage Lending (7820) 3
This course provides a clear understanding of the fundamentals of mortgage lending. After successfully completing this course, the student will be able to: describe the mortgage lending industry, including the customer base, market, government regulations, and alternative mortgage instruments; process and underwrite a residential mortgage loan; identify the benefits, requirements, and classifications of mortgage insurance; market residential loans; describe the secondary mortgage market and how mortgage-backed securities have become important to mortgage lenders in the market; appraise, close and administer residential mortgage loans; identify the general principles of real estate law. (TBA)

BNK 226 Law & Banking: Principles (3660) 3
This course is a banker’s guide to law and legal issues, with special emphasis on the Uniform Commercial Code. After successfully completing this course, the student will be able to: identify the sources and applications of banking law; distinguish between torts and crimes and how they relate to banking situations, explain contracts, including the need for legal capacity, legal objective, mutual assent, and consideration; describe real and personal properties and their application to banking; discuss how bankruptcy affects banks and differentiate between the liquidation and rehabilitation goals of the Bankruptcy Code; identify the legal implication of consumer lending. (Varies)

BNK 228 Marketing For Bankers (7740) 3
Marketing for Bankers looks at what motivates customers to purchase financial services and teaches bankers how to develop
a successful marketing plan. Students will learn to recognize consumer motivation and buying behavior; integrate public relations, advertising, sales, promotion, selling, and service distribution functions in the bank's overall marketing plan; conduct situation analysis and formulate a master marketing strategy; monitor and evaluate performance. (Varies)

**BNK 230 Analyzing Financial Statements (6920)** 3
This course provides the opportunity to further develop the skills necessary to conduct a comprehensive and effective financial analysis of a business borrower in order to assess repayment capacity. Topics include: how a company's type of business, legal structure, size, and management strategies affect the way a lender conducts financial analysis; analysis of income statements, balance sheets, and pro forma statements; financial ratios as a tool to compare a company's performance with that of its' industry; advanced analytical techniques: sensitivity analysis, sustainable growth, working investment analysis, break-even analysis, and operating leverage; funds flow statements; construction and interpretation of cash budgets. (Varies)

**BNK 242 Money & Banking (1350)** 3
This course presents a fundamental treatment of how money functions in the U.S. and world economies. Topics include the concept of money supply and the role the bank plays as a money creator and participant in the nation's payment mechanism. Money and Banking also explains how the various types of financial institutions operate, the working of monetary and fiscal policies, the functions and powers of the Federal Reserve, and more. Students will learn: how commercial banks "create" money; the tools of monetary and fiscal policy; to interpret major trends and issues in banking; bank operations relationship to U.S. payment mechanisms; to compare and contrast various types of financial institutions. (Varies)

**BIOLOGICAL SCIENCES**

**BIO 120 Biological Concepts** 4(Lab)
A one-semester introductory course concerned with the fundamental facts and principles of modern biology. The course is designed for the student who wishes to gain an understanding of current biological concepts and their relevance to problems of human society. Emphasis will be on principles including: cell structure and function, energy transfer, reproduction, heredity, and evolution. Topics of contemporary interest include cancer, AIDS, infertility, genetic technology, and others. Prerequisite: COM 061; MAT 020 or appropriate placement tests score. (All/Summer)

**BIO 150 Biology I** 4(Lab)
This is a first year college course that emphasizes biological organization at the cellular level. Concepts of cell biology, genetics, and evolution are included. The laboratory complements the lecture. Prerequisite: COM 061; CHE 120 is highly recommended (or high school Chemistry within last 5 years); MAT 020 or appropriate placement tests score. (All/Summer)

**BIO 155 Biology II** 4(Lab)
This course introduces the fundamental principles of botany and zoology as applied to the representative groups of plants and animals. Topics also include ecology and evolution. Prerequisite: BIO 150 with a "C" or better. (Winter - even years)

**BIO 210 Botany** 4(Lab)
A survey of the plant kingdom with major emphasis on the anatomy and physiology of the seed plants. Prerequisite: BIO 150 (or permission of the Instructor) or BIO 120. (Spring - odd year)

**BIO 250 Anatomy & Physiology I** 4(Lab)
A study of the fundamentals of anatomy and physiology, with emphasis placed on the organization of the body, cells and tissues, integumentary system, skeletal system, muscular system, nervous system, and special senses. Prerequisite: BIO 150 with a "C" or better (or high school Biology and high school Advanced Biology and high school Chemistry within the past 5 years); COM 121 may be taken concurrently. (All/Summer)

**BIO 255 Anatomy & Physiology II** 4(Lab)
A study of the fundamentals of anatomy and physiology with emphasis placed on the organization of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Prerequisite: BIO 250 with a "C" or better within the last 5 years. (All/Summer)

**BIO 280 Microbiology** 4(Lab)
This course is a survey of the world of microorganisms. Topics include: microbial-morphology, metabolism, and genetics; culture characteristics and identification; basic immunologic concepts and applications; theory of disease process; and applied microbiology as to food and water. The laboratory component complements the lecture material. Prerequisites: BIO 150 with a "C" or better (or high school Biology, high school Chemistry and high school Advanced Biology within the past 5 years); COM 121 may be taken concurrently. (All/Summer)

**BUSINESS**

**BUS 100 Introduction to Business** 3
This course is a survey of the structure of business - its principles, activities, and typical problems. It is designed to provide students with an overview of business careers and a working knowledge of business terminology. The course covers facets of business such as ownership, management, production, marketing, human resources, accounting, information systems, economics, legal issue, ethics, and social responsibility. Prerequisites: COM 051; COM 061. (All)

**BUS 105 Business English** 3
This course is designed for students to review and strengthen technical English skills such as grammar, sentence structure, word usage, and punctuation. Prerequisite: COM 061. (Fall/Winter)

**BUS 106 Business Communications** 3
This course is the communication process explored through the development of effective oral and written communications skills. Emphasis on business correspondence, report writing, application letter and resume, and oral presentation. Prerequisite: COM 121. (All)

**BUS 110 Business Mathematics** 3
This course stresses the mastery of fundamental mathematical operations designed to prepare students in all pertinent areas of business including decimals, fractions, percentages, payroll, taxes, finance charges, insurance, stocks, bonds, compound interest, present value, annuities, and business statistics. Prerequisite: MAT 030. (All)

**BUS 115 Economics Survey** 3
This course is an introduction to the basic concepts and principles of economics including the essential concepts, principles, and problems of both macroeconomics and microeconomics. Prerequisite: COM 061. (TBA)
BUS 200 Macroeconomics 3
This course is an introduction to the basic principles of economics with emphasis upon macroeconomic theory. Among topics considered are the scope and nature of economics, national income and employment theory, business fluctuations, money and banking, fiscal and monetary policies, and economic growth. Prerequisite: COM 121 and MAT 020 or appropriate placement tests score. (All)

BUS 201 Microeconomics 3
This course is the study of basic economic principles with particular emphasis upon microeconomic theory and problems. Among the topics considered are the economics of the firm, the price system and resources allocation, the distribution of income, and domestic economic problems. Prerequisite: COM 121 and MAT 020 or appropriate placement tests score. (Winter)

BUS 210 Principles of Salesmanship 3
Instruction is provided in the fundamentals of good salesmanship. Classes consist of lectures, discussions, and student sales demonstrations. The personal and economic aspects of selling are reviewed. Prerequisite: COM 061. (Winter)

BUS 220 Principles of Marketing 3
This course is a study of the distributive phase of economics including the marketing concept, the marketing mix, marketing research, and consumer behavior. Prerequisites: BUS 100; COM 121. (Spring)

BUS 230 Business Law 3
This course covers the significance of business procedures and methods to avoid lawsuits and major legal problems. The legal system, contract law, sales contracts, commercial paper, agency relationships, insurance, property, partnerships, and corporations are the areas of study. The course is designed to be taken near the end of business studies. Prerequisites: BUS 100 or OFT 230; COM 121. (Spring)

BUS 240 International Business 3
Using a global perspective, this course examines business and economic techniques and applies financial and management techniques. Students will investigate multinational corporate issues along with modes of market development in the context of international business entry and strategic planning. This will include attention being given to counter trade, cultural differences, ethical issues and environmental concerns. Prerequisites: ACC 105, BUS 100, BUS 200 or BUS 201. (Summer)

BUS 290 Cooperative Education I  (TBA) Varies
BUS 291 Cooperative Education II  (TBA) Varies
BUS 299 Seminar  (TBA) Varies

CAREER DEVELOPMENT Credit Hours
CAR 103 Career Decision Making 1
This course is designed to aid students who are unsure of their career choice. Through various career inventories and classroom exercises students will develop a better understanding of themselves and their relationship with the world of work. Different careers will be explored and the decision-making process will be examined. Prerequisite: COM 021. (All)

CAR 104 Resume Writing/Interview Skills 1
This course is designed to assist students who intend to enter the workforce, change occupations, or advance in their careers. Various job hunting strategies will be reviewed. Each student will complete a resume and cover letter and will also receive instruction and practice in interviewing skills. Prerequisite: COM 021. (Spring)

CAR 105 Professionalism on the Job 1
Human relations skills are a critical factor in success on the job. This course is designed to help students plan and implement their own career strategies, placing particular emphasis on the importance of effective job attitudes and behaviors. The student will be guided in the development of those human relations skills necessary to keep, advance in, or change careers. Prerequisite: COM 021. (Fall/Spring)

CHE 110 Introduction to the Laboratory 1(Lab)
This course serves as an introduction to the clinical and industrial laboratory experience to follow. Laboratory organization and safety will be stressed. Basic laboratory techniques will be introduced. Lecture one hour per week, laboratory two hours per week. Prerequisites: COM 061 and MAT 020 or appropriate placement tests scores. (Fall)

CHE 120 Principles of Chemistry 4(Lab)
This is a first-year college course which covers the concepts of chemistry. Among the topics include systems of measurement, matter and energy, atom theory, energy levels and atomic structure, the periodic table, ionic and covalent bonding, chemical equations, stoichiometry, acids and bases, states of matter, and solutions. Laboratory experiments are performed and complement theory. Prerequisite: COM 061; MAT 090 with a “C” or better. (All/Summer)

CHE 150 Chemistry I 4(Lab)
The fundamental principles and theories of chemistry; the period classification; the nature of atoms; chemical bonding; chemical calculations; gas laws; solutions and their colligative properties. Prerequisite: CHE 120 with a “C” or better (or high school chemistry within the last 3 years); MAT 110 with a “C” or better. (Winter)

CHE 155 Chemistry II 4(Lab)
The second half of a general chemistry course and includes as the major topics: thermochemistry, chemical kinetics, chemical equilibria, thermodynamics, precipitation reactions, electrochemistry, and nuclear chemistry. Laboratory experiments are designed to augment the theory. A major part of the laboratory includes qualitative and quantitative analyzes to strengthen the student in the field of analytical chemistry. Prerequisite: CHE 150; MAT 160 or MAT 180. (Spring)

CHE 220 Introduction to Organic Chemistry 5(Lab)
This course provides instruction in the basic essentials of organic chemistry including the structure, nomenclature, properties, preparation, reactions, and reaction mechanisms of the major classes of organic compounds. Classes studied include saturated and unsaturated hydrocarbons, aromatic compounds, halides, alcohols, ethers, aldehydes, ketones, carboxylic acids and their derivatives, and amines. Also included are more complex compounds such as carbohydrates, lipids, proteins, enzymes, and nucleic acids. The laboratory component of the course includes procedures and techniques dealing with non-aqueous systems, synthesis, and qualitative testing. Prerequisites: CHE 150 Chemistry I and BIO 150 Biology I (or advanced high school biology). (Spring)

All = Fall, Winter, Spring
CHE 275  Instrumental Analysis  4(Lab)
This course is designed for those students pursuing a career in any chemistry laboratory. The application and theory of instrumentation to chemical analysis is stressed. Emphasis is placed on spectrophotometry (infrared, visible, and ultraviolet), potentiometry, and chromatography. Statistical quality control of analytical procedures and issues related to the safe use of hazardous materials are also included. Prerequisites: CHE 150 Chemistry I and CHE 220 Introduction to Organic Chemistry.  (Fall)

CHE 290  Cooperative Education I  (All)  Varies
CHE 291  Cooperative Education II  (All)  Varies
CHE 299  Seminar  (TBA)  Varies

COMMUNICATIONS  
Credit Hours

PLEASE NOTE: COM 040 and COM 041 are equivalent courses. COM 050 and COM 051 are equivalent courses.

COM 009  College Entrance Course Reading & Writing  0
This course is designed to assist students with developing vocabulary skills and recognizing the main idea and supporting details in a paragraph. Students will also learn beginning writing and study skills. Prerequisite: placement by assessment.  (All)

COM 021  Basics of College Reading  3
The course is designed to assist students in developing reading competencies necessary to function satisfactorily in college-level courses. Strategies and skills that promote comprehension, recall and retention of written text are emphasized. In addition, strategies to develop vocabulary are presented. Course materials are drawn from adapted college textbook materials, college-level texts, news articles, essay and magazine articles. Practical applications of reading and vocabulary strategies are emphasized to promote improved comprehension and expanded vocabulary. Prerequisite: Placement by appropriate score on placement test or completion of COM 009 College Entrance Course Reading and Writing.  (All)

COM 031  Basics of College Study Skills  3
The course is designed to assist the student to develop the study skills competencies necessary to function in other college courses. The student will acquire the study habits and techniques necessary to become an independent learner. Principles include time management, effective listening, locating information, note-taking, and systematic approaches to study. Prerequisite: COM 009.  (All)

COM 040  Basic Writing I with Workshop  4
This course will offer student guided practice in basic writing skills in a workshop setting which emphasizes conference time with the instructor and in small peer groups. The course focuses on constructing essays through careful paragraph building. Selection of topics and supporting details and the development and organization of ideas are emphasized. Students will learn to compose short essays based on personal experience and knowledge. Prerequisite: Placement by appropriate score on placement test or completion of COM 009 College Entrance Course Reading and Writing.  (All)

COM 041  Basic Writing I  3
This course will offer students guided practice in basic writing skills. It focuses on constructing essays through careful paragraph building. Selection of topics and supporting details and the development and organization of ideas are emphasized. Students will learn to compose short essays based on personal experience. Prerequisite: Placement by appropriate score on placement test or completion of COM 009 College Entrance Course Reading and Writing.  (All)

COM 050  Basic Writing II with Workshop  4
This course helps to develop basic writing skills with practice and reinforcement of those skills provided in weekly workshops. Students will begin to develop a sense of themselves as writers and a sense of the elements that constitute effective academic writing through regular writing and ongoing feedback from the instructor in one-on-one and small group conferences. Students will compose short expository essays through guided practice in a variety of activities. Students will also be introduced to basic methods of library research. Prerequisite: COM 021 Basics of College Reading and COM 040 Basic Writing I with Workshop or COM 041 Basic Writing I with grades of “C” or better; or appropriate score on placement test.  (All)

COM 051  Basic Writing II  3
This course helps develop basic writing skills. Students will develop a sense of themselves as writers and a sense of the elements that constitute effective academic writing. They will compose short expository essays through guided practice in a variety of activities. Students will also be introduced to basic methods of library research. Prerequisite: COM 021 Basics of College Reading and COM 040 Basic Writing I with Workshop or COM 041 Basic Writing I with grades of “C” or better; or appropriate score on placement test.  (All)

COM 061  Advanced Reading: Speed & Comprehension  3
Advanced reading skills as speed and comprehension, memory skills and improvement of concentration are taught. The reading selections are taken from current, relevant books; college textbooks; academic and scholarly journals and news articles. At all times, increased comprehension is stressed. The course will also enable the students to use technology and materials/equipment in the computerized Reading Lab component. Prerequisite: appropriate score on placement test or “C” or better in COM 021 Basics of College Reading.  (All)

COM 121  English Composition  3
This course helps develop an understanding of the elements of exposition and formal argument and the processes and strategies involved in writing essays for various audiences. Students also learn to identify and locate credible sources, integrate researched information within essays, and use Modern Language Association (MLA) and American Psychological Association (APA) documentation. Prerequisites: Appropriate score on the placement test or COM 051 Basics of College Writing and COM 061 Advanced Reading: Speed and Comprehension with a grade of “C” or better.  (All)
COM 122  English Composition (Honors)  3
This course helps students develop an understanding of the elements of exposition and formal argument and the processes and strategies involved in writing essays for various audiences. Students also learn to identify and locate credible sources, integrate researched information within essays, and use Modern Language Association (MLA) and American Psychological Association (APA) documentation.

*This Honors section of English Composition assumes a strong foundation in writing skills, including developing and organizing a focused piece of writing, using current conventions of academic discourse. Therefore, the major emphasis will be an in-depth exploration of a socially relevant theme chosen by instructor and/or students using those skills and producing a collaborative, unified body of work rather than isolated individual essays. In a workshop format, the class will work as a community of writers to define and to solve a writing problem. Discussions, readings, interviews, primary research and extensive writing will result in a culminating final product and presentation that would incorporate the work of the entire term.

Prerequisites: COM 051 and COM 061 or appropriate score on placement test and eligibility for the Honors Program.  (All)

COM 131  Composition & Literature  3
An introduction to short story, drama and poetry, the course builds on and develops writing and research skills begun in COM 121. Students engage in class discussions as well as compose essays which respond to and analyze literary works. Prerequisite: COM 121 or COM 122 with a “C” or better.  (All)

COM 132  Composition & Literature: Texts and Contexts (Honors)  3
Composition and Literature: Texts and Contexts (Honors) involves students in a guided exploration of literature through the understanding and application of various critical theories. Invited to read, discuss, analyze, interpret, research, and write about fiction, poetry, and drama from the perspectives of a number of theoretical approaches, students will develop the ability to recognize assumptions underlying certain literary theories, understand their aims and implications, and apply their methods of analysis to literature. Students will also practice a variety of researching and writing strategies that evolve from the various theoretical perspectives. Prerequisites: COM 121 or COM 122 with a “C” or better; eligibility for the Honors Program.  (Winter)

COM 141  Technical Writing  3
Students learn research techniques in their specialized fields and standard formats used in business and industry, such as technical correspondence, formal reports, and oral presentations. Emphasis is on accommodating the needs of technical audiences, from lay to expert, specifically through document design, logical presentation, and concise, readable prose. Prerequisite: COM 121 or COM 122 with a “C” or better.  (All/Summer)

COM 151  Fundamentals of Speech  3
The course emphasizes the strategies necessary for planning, developing and delivering oral presentations, which range from individual informative and persuasive speeches to group panels and workshops. Class discussions focus on adapting information, organization and delivery styles to meet the needs of listeners.

Classroom activity is performance-based, with students delivering speeches, responding to classmates and leading class discussions. Videotapes made of student performances provide opportunities for self-evaluation. Prerequisites: COM 051; COM 061.  (All)

COM 152  Fundamentals of Speech (Honors)  3
The Honors section of Fundamentals of Speech moves beyond emphasizing strategies for and practice in delivering basic informative and persuasive speeches of the non-Honors section. In this course students also examine styles of oral argumentation and gain experience in supporting an issue through research and logic as well as in answering and counter arguing opposing evidence to a position. Students practice their skills in individual speeches as well as in team presentations. Moreover, students lead class discussions as well as give feedback to classmates. Videotapes of students’ performances provide opportunities for self-evaluation. Prerequisites: COM 051; COM 061; eligibility for the Honors Program.  (TBA)

COM 161  Mass Media  3
This course surveys the major forms of the mass media—newspapers, radio, magazines, television and electronic media—and their impact politically, socially and economically. The student will explore the origins, development, and potentiality of print, broadcast and electronic media as well as analyze the evolution of standards, policies, methods and controls. The course is designed to be equally useful for students planning to enter a communications field or other professions and businesses. As consumers, we all must use the media, either to inform ourselves or to help inform and persuade others. Prerequisite: COM 121 or COM 122.  (Winter)

COM 163  Writing for the Media  3
This course will introduce students to the wide variety of writing and publishing opportunities in the media. Students will learn to identify and practice writing for traditional media such as newspapers as well as engage in the study of and writing for other kinds of publishing genres such as magazines, public relations material and on-line communication. Students will develop skills in writing copy for a variety of purposes including news reporting, feature writing and creating press releases. Additionally, students will be introduced to the roles of the editor including writing editorials, editing copy and writing headlines. In short, this course will help students to understand the qualifications needed to write for the media. Prerequisite: COM 121 or COM 122.  (Spring)

COM 201  Introduction to Editing  3
This course, designed for native writers of English, helps students develop editing strategies for making prose writing more effective. Using personal, peer and professional texts, students will focus on issues of correctness and style. Specifically, they will learn to create prose that is correct in syntax, usage and punctuation and to adapt prose style to fit a variety of audiences and situations. Editing will be viewed within the context of the composing process as a whole and concepts will be examined within a social, historical, and political perspective. Prerequisite: COM 121 English Composition or COM 122 English Composition (Honors) with a grade of “C” or better.  (Fall)

COM 205  Writing for On-line Environments  3
The course challenges students to read, write, and think differently about new forms of media and communication. Chief

All = Fall, Winter, Spring
among these new forms is the Internet. Students will investigate the rhetorical and visual structure of computer-mediated, on-line texts such as e-mail, web pages, and interactive communication tools. Also, students will consider the sociological significance of the changing space of writing and publishing leading up to postmodern theories of writing and culture. Students will write in a variety of media in order to improve their writing as they improve their understanding of the rhetoric of on-line environments. Prerequisite: COM 121 & IFT 110. (Spring)

COM 211 Poetry Writing 3
In this course students will study the elements and craft of writing poetry. Within a workshop setting, students will practice stanza, lineation, rhyming, word placement, and other elements of traditional verse as well as explore imagery, tone, style, and composition of both traditional and free verse. As students read and respond to the poems of professionals and peers, they will explore strategies for revising their own poems as well as reflect on their personal writing processes. Students will also investigate markets for publishing their poetry. Prerequisite: COM 121 or COM 122. (TBA)

COM 299 Seminar 3
(TBA) varies

CULINARY ARTS Credit Hours

CUL 101 Basic Food Preparation and Safety 4
This course is designed for beginning students. The student will receive lecture and hands-on training in weight and measures, job safety, basic sanitation, inventory, receiving goods and equipment usage in the food service industry. Prerequisite: COM 021 and MAT 020. (Fall/Winter)

CUL 111 Introduction to Food Production 4
Students enrolled in this course will get an overview and understanding of the theory behind breakfast production, soups, stocks, sauces, salads, dressings, hot and cold sandwiches and fruit and vegetable preparation. Students will be introduced to basic techniques in the industry and gain skills in those areas. Students will note a direct correlation between classroom work and real life experiences by successfully completing assigned “work” hours at one of the four practical kitchens. Prerequisite: CUL 101. (Winter)

CUL 125 Food Preparation Theory 4
Instruction on the theory behind food preparation is stressed in this course. The how and why of preparation is addressed. Students enrolled in this course will receive the instruction necessary to prepare foods in a food service setting. Prerequisite: CUL 111. (Spring)

CUL 201 Food Preparation Practicum 3
Students will be introduced to preparation of basic foods. They will learn skills in vegetable production as well as preparation of fruits for service. This course relies on competency based evaluation. Prerequisite: CUL 111. (Fall)

CUL 215 Breakfast Cookery 3
This course includes training in preparation and presentation of items for use in breakfast and brunch. Emphasis is placed on egg production, breakfast quick breads and meats, which are applicable to high profit breakfast operations. Prerequisite: CUL 111. (Summer)

CUL 220 Food Service Sanitation 2
Food Sanitation and Safety is an industry-driven course. Students will learn about sanitation and HACCP (hazardous analysis critical control point), as well as safety in the workplace. This course will prepare the student for the sanitation certification which will be administered at the end of the course. Prerequisite: COM 021. (Spring)

CUL 235 Professional Baking 3
Students will learn, using a hands-on approach, the fundamental principles and procedures for preparing baked goods, pastries, and desserts. A study of ingredients and mixing methods for various baked goods. Prerequisite: CUL 111. (Summer)

CUL 240 Garde Manger 3
Perfection of techniques in the production of cold food presentations. Preparation of aspics, forcemeats, pates, mousse, marinades, gelatines. Platter and mirror designs to highlight buffet work. Prerequisite: CUL 210. (Winter)

CUL 255 Advanced Food Preparation Practicum 3
This course is a hands-on preparation course. Students will work in a food-service setting preparing foods under a chef’s direction. Prerequisite: CUL 240. (Spring)

EARLY CHILDHOOD EDUCATION

ECE 106 The Early Childhood Professional 3
This course explores the role of the early childhood professional. Emphasis will be placed on the development of a professional plan. In developing the professional plan students will have the opportunity to evaluate their goals and commitment to professional development and higher education. Skills and techniques to develop the student’s academic and professional development in the college environment will be highlighted. Students are required to participate four hours per week in an approved early care and education setting. Prerequisite: COM 061. (TBA)

ECE 115 Creative Art for the Developing Child 3
This course focuses on the process of development in young children and its relationship to art instruction. Emphasis will be placed on basic 2-dimensional mediatl art techniques which can be mastered by children from infancy through grade six. Students will actively engage in creative activities and present art experiences to children in the RACC Early Learning Center. Participation both in class and one hour per week in the college’s Education Laboratory Center is required. Prerequisite: COM 021. (All)

ECE 120 Observation & Interpretation of Child Behavior 3
The basic principles and techniques of observing and interpreting child behavior will be discussed, evaluated and practiced. The student will spend a total of forty hours in a day care center, private nursery school, Montessori or Public School setting under the supervision of a certified teacher. Students will be required to write weekly observation papers on children in group situations. The four hours of field experience is supplemented by two class sessions per week. Prerequisite: COM 051; COM 061. (Spring)

ECE 125 Introduction to Early Childhood Education 3
The course explores the history and rationale for preschool and child care services, analyzes on-going community programs and considers the projected future for state and federally funded programs for children. One hour participation weekly is required in the college’s Education Laboratory Center. Prerequisite: COM 051; COM 061. (Fall/Winter)

All = Fall, Winter, Spring
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 140</td>
<td>Health, Safety &amp; Nutrition in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>This course focuses upon health, safety, and nutrition issues of young children. Emphasis will be placed on the health and safety needs of the physical environment. Students will have the opportunity to analyze and interpret the Department of Welfare regulations. One hour participation weekly is required in the college’s Education Laboratory Center. Prerequisites: COM 051; COM 061. (Winter/Spring)</td>
<td></td>
</tr>
<tr>
<td>ECE 145</td>
<td>In-Home Child Care Specialist, Professional Nanny</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>This course is designed to provide the student with the knowledge and skills necessary to perform as a professional in the home child care field. It is particularly directed to family or group child care settings. This course involves active involvement in the physical, intellectual, emotional, and social growth and well-being of the child. One hour participation weekly is required in the college’s Education Laboratory Center. Prerequisite: COM 051; COM 061. (Fall)</td>
<td></td>
</tr>
<tr>
<td>ECE 150</td>
<td>Early Childhood Practicum I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Students will participate in 100 hours field related work under the supervision of a cooperating teacher who will assist them as they learn to apply theory and ideas gained through previous course work. The class will meet once a week to evaluate activities, share experiences, and assess readiness to direct additional activities. Prerequisite: COM 121 and grade of “C” or better in ECE 115 and ECE 125. (Winter/Spring)</td>
<td></td>
</tr>
<tr>
<td>ECE 220</td>
<td>Curriculum Development &amp; Instructional Materials</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>This course emphasizes the use of developmentally appropriate practices in curriculum planning for children from birth to age eight. Students will select and construct materials that enhance intellectual, physical, and social/emotional growth. Students will plan and implement instructional objectives, learning objectives, and units of instruction. Two hours of participation in the college’s Education Laboratory Center is required weekly. Prerequisite: COM 121; ECE 125 or 120 (or approved experience in a child care center). (Fall)</td>
<td></td>
</tr>
<tr>
<td>ECE 222</td>
<td>Language Arts for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>This course begins with language development of the child between infancy and eight years of age. It extends knowledge into the development of the language arts; listening, speaking, reading, and writing; at home and in the classroom setting. One hour each week of the term is spent in the college’s Education Laboratory Center as part of the coursework required. Prerequisites: COM 121; ECE 125 (or approved experience in a child care center). (Winter)</td>
<td></td>
</tr>
<tr>
<td>ECE 225</td>
<td>Music &amp; Movement for Young Children</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The course will enable students to establish a repertoire of materials and methods to develop music and movement skills in young children. Emphasis will be placed on developing creativity in planning for music and movement activities appropriate for children from infancy to age eight. Participation both in class and one hour per week in the college’s Education Laboratory Center is required. Prerequisite: COM 121. (Spring)</td>
<td></td>
</tr>
<tr>
<td>ECE 227</td>
<td>Infant/Toddler Care and Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>This course emphasizes all components of a developmentally appropriate infant/toddler program. Students will select and construct age appropriate instructional materials that will enhance cognitive, social, emotional, and motor development of infants and toddlers. This course requires one (1) hour per week participation in the college’s Education Laboratory Center. Prerequisites: COM 121. (Spring)</td>
<td></td>
</tr>
<tr>
<td>ECE 229</td>
<td>Childcare Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>This course is designed to introduce students to the managerial needs of a childcare program. Emphasis is placed on the utilization of childcare regulations to manage day-to-day operational issues such as staffing, funding, health and safety needs, and planning for age-appropriate childcare environments. Students will be introduced to a variety of software applications applicable to managing a childcare center. Prerequisites: COM 121; ECE 115; ECE 125. (Fall)</td>
<td></td>
</tr>
<tr>
<td>ECE 230</td>
<td>Child Care Administration</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>This course focuses on the unique administrative needs of childcare settings. Various components of leadership philosophy and style will be examined. Budgetary and regulatory considerations will be analyzed as well as supervision and training of staff. Prerequisite: COM 121. (Winter)</td>
<td></td>
</tr>
<tr>
<td>ECE 240</td>
<td>School-Age Childcare</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The focus of this course is on the unique needs of school-age children in the childcare setting. Students will examine the developmental characteristics of school-age children in relationship to peer interaction, creative development, cognitive development, and physical development. Students will plan and implement activities appropriate for school-age children in a childcare setting. Students are required to complete 10 hours of participation in an approved school-age childcare setting. Prerequisite: COM 121; ECE 125; PSY 130. (Spring)</td>
<td></td>
</tr>
<tr>
<td>ECE 255</td>
<td>Early Childhood Practicum II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>As the culmination to the early childhood education programs, students will be assigned to work for 100 hours with a cooperating teacher in an approved early childhood setting. Students will demonstrate competencies in planning and implementation of all classroom activities. A comprehensive portfolio designed to document how students meet program competencies will be developed in this course. The class will meet once a week to evaluate activities, share experiences, and assess readiness to direct additional activities. Prerequisite: ECE 150. (Spring)</td>
<td></td>
</tr>
<tr>
<td>ECE 290</td>
<td>Cooperative Education I</td>
<td>Varies</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: 27 credits earned in student’s curriculum with a 2.0 QPA.</td>
<td></td>
</tr>
<tr>
<td>ECE 291</td>
<td>Cooperative Education II</td>
<td>Varies</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: 27 credits earned in student’s curriculum with a 2.0 QPA.</td>
<td></td>
</tr>
<tr>
<td>ECE 299</td>
<td>Seminar</td>
<td>(TBA)</td>
</tr>
<tr>
<td></td>
<td>Prerequisites: 27 credits earned in student’s curriculum with a 2.0 QPA.</td>
<td></td>
</tr>
</tbody>
</table>

All = Fall, Winter, Spring
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 250</td>
<td>Comparative Economic Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECU 130</td>
<td>Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDT 210</td>
<td>Advanced Educational Technology</td>
<td>3</td>
</tr>
<tr>
<td>EDT 220</td>
<td>Issues &amp; Trends in Educational Technology</td>
<td>3</td>
</tr>
<tr>
<td>EDT 290</td>
<td>Cooperative Education in Educational Technology</td>
<td>6</td>
</tr>
<tr>
<td>EUT 100</td>
<td>Electric Utility Technology I</td>
<td>6</td>
</tr>
<tr>
<td>EUT 110</td>
<td>Electrical Systems &amp; Control Wiring</td>
<td>4</td>
</tr>
<tr>
<td>EUT 120</td>
<td>Electricity Utility Technology II</td>
<td>6</td>
</tr>
<tr>
<td>EUT 130</td>
<td>Wiring Systems, Transformers, Power Generation</td>
<td>4</td>
</tr>
</tbody>
</table>

**ECONOMICS**

This course is designed to assist students to understand the myriad of ways that human societies have devised to control to production and distribution of goods and services by familiarizing them with the global diversity of and evolutionary trends in human economic activities and systems from prehistoric to modern times. The strengths and weaknesses of the American economic system are compared and contrasted with those of other peoples and nations both past and present. Prerequisite: COM 121. (TBA)

**EDUCATION**

This course is an introduction to the teaching profession. Students in this course will look at perspectives in American education. Historical aspects of education will be compared to current practices in education. Students will be given opportunities to explore career opportunities in the field of education. Issues in professionalism will also be addressed. Prerequisite: COM 051; COM 061. (All)

**EDUCATIONAL TECHNOLOGY**

This course is designed for students who are working as teacher’s assistants in a multicultural setting. The student also gains from the emphasis on foundations and methods that facilitate the personal growth of learners for which English is not a primary language. Students gain an understanding of multicultural values and traditions, and preferences for thinking and interacting. Prerequisite: COM 121. (Fall)

**ELECTRIC UTILITY TECHNOLOGY**

This course provides students with skills for lifelong learning in educational technology stressing the role of the educational technologist as a liaison to non-technical users. This course is World Wide Web-based to a very large extent. Prerequisite: EDT 200. (Winter)

This course provides students with overall understanding of fundamental educational technology concepts including social and ethical considerations, computers across the curriculum, software evaluation and application, and a broad range of hardware used for instructional purposes including multimedia devices, will be reinforced. Analog and digital resources for education are developed and Internet resources are applied. Prerequisite: EDT 200. (Fall)

This course provides students with skills for lifelong learning in educational technology. It covers research methods, resource management, budgeting and funding, as well as current issues and trends in the field of educational technology stressing the role of the educational technologist as a liaison to non-technical users. This course is World Wide Web-based to a very large extent. Prerequisite: EDT 200. (Winter)

This course provides students with skills for lifelong learning in educational technology. It covers research methods, resource management, budgeting and funding, as well as current issues and trends in the field of educational technology stressing the role of the educational technologist as a liaison to non-technical users. This course is World Wide Web-based to a very large extent. Prerequisite: EDT 200. (Winter)
ELT 200  Digital Electronics/Solid State Device 4(Lab)
This course is designed to introduce students to the fundamentals of digital logic, digital circuits, and solid state electronics. Topics include number systems, logic gates, Boolean algebra, Karnaugh mapping, combinational logic, diodes, transistors, amplifiers, and related devices. Prerequisite: ELT 100; PHY 150. (Winter)

ENGINEERING Credit Hours

EGR 106  Engineering Graphics II 2(Lab)
This second course in engineering graphics will be taught using AutoCAD. This course is designed to provide the machine tool student and others working in the industry with a basic understanding of mechanical drawing using AutoCAD. The student should have some prior experience with AutoCAD. This intermediate-level course will focus on the use of AutoCAD to draught and sketch in the previous course to graphically describe machine parts in AutoCAD. A major goal of the course is to provide the student with the knowledge to be able to completely and accurately describe machine parts by making working drawings. Prerequisite: MTT151. (Fall)

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESL) Credit Hours

ESL 001  Reading I 3
This beginner course is designed to develop students' ability to use reading strategies and to expand vocabulary in order to understand simplified texts. Students should ideally take this course with "ESL 005: Sentence Structure" and "ESL 009: Speaking and Listening I." Three hours of lab instruction per week are required. Prerequisite: Placement tests results or permission of instructor; Corequisite: ESL 021.

ESL 002  Reading II 3
In this course, students expand their reading skills and vocabulary. Students should ideally take this course with "ESL 006: Grammar and Punctuation" and "ESL 010: Speaking and Listening II." Also, three hours of lab instruction per week are required. Prerequisite: Placement tests results, permission of instructor, or passing ESL 001. Corequisite: ESL 022.

ESL 003  Reading III 3
This course is designed for intermediate-level ESL students who need to build their vocabulary and basic reading skills and comprehension so that they can, with the assistance of a dictionary, understand text that is written for native speakers. Students should ideally take this course with "ESL 007: Transition Writing" and "ESL 011: Speaking and Listening III." In addition, three hours of lab instruction per week are required. Prerequisite: Placement tests results, permission of instructor, or passing ESL 002. Corequisite: ESL 023.

ESL 004  Advanced Reading IV 3
While previous levels of ESL reading instruction are designed to acquaint students with the special issues relating to reading in a language that is not a native language, this course provides preliminary instruction in competencies that are necessary to function as readers in "regular entry" college courses. The students will receive further practice using reading strategies to which they have been introduced in the first three courses in the ESL Reading course series. In addition, they will learn advanced word-attack skills, word analysis, vocabulary development, and comprehension strategies. Students should ideally take this course with "ESL 008: Writing IV" and "ESL 012: Speaking and Listening IV." In addition, three hours of lab instruction per week are required. Prerequisite: Placement tests results, permission of instructor, or passing ESL 003. Corequisite: ESL 024.

All = Fall, Winter, Spring
ESL 005  Sentence Structure  3
The first of a four part course series, this course is designed to present the basic structures of standard English sentences, principles of standard idiomatic usage within that structured context, and syntactical rules governing placement of sentence structures. The course is designed primarily for non-native speakers, but native speakers with special language problems or limited sentence instruction may also find the course useful. Students should ideally take this course with “ESL 001: Reading I” and “ESL 009: Speaking and Listening I.” In addition, three hours of lab instruction per week are required. Prerequisites: Placement tests results or permission of instructor. Corequisite: ESL 025.

ESL 006  Grammar and Punctuation  3
A continuation of ESL 005, this course is designed to build on students’ knowledge of sentence structures acquired in that course and apply them as the basis for rules and principles of English grammar. Some course content, such as idiomatic practice, is designed primarily for non-native speakers; however, the bulk of material is designed to be used by native and non-native speakers alike. Students should ideally take this course with “ESL 002: Reading II” and “ESL 010: Speaking and Listening II.” In addition, three hours of lab instruction per week are required. Prerequisite: Placement tests results, permission of instructor, or passing ESL 005. Corequisite: ESL 026.

ESL 007  Transitional Writing  3
This course is for advanced beginners who can write basic sentences and have some knowledge of English sentence structure. The course covers basic grammatical structures and introduces students to simple paragraph writing as well as other type of writing needed in everyday life. Students should ideally take this course with “ESL 003: Reading III” and “ESL 011: Speaking and Listening III.” In addition, three hours of lab instruction per week are required. Prerequisite: Placement tests results, permission of instructor, or passing ESL 006. Corequisite: ESL 027.

ESL 008  Writing IV  3
This course is the fourth and final offering in the ESL course series. It is designed to allow students to apply and improve sentence structure, grammar, punctuation, and idiom skills initiated in the two previous ESL courses. In addition, this course acts as preparation for English Composition (with successful completion of ESL Reading IV) and presents the principles of effective essay writing which are developed in more depth. A review of essential principles of good sentence writing is presented in the context of preparation and review of five short essay assignments. Students should ideally take this course with “ESL 004: Reading IV” and “ESL 012: Speaking and Listening IV.” In addition, three hours of lab instruction per week are required. Prerequisites: Placement tests results, permission of instructor, or passing ESL 007. Corequisite: ESL 028.

ESL 009  Speaking and Listening I  3
This course is for advanced beginners who have some basic knowledge of English and some functional communicative ability (e.g., simple questions and answers on topics of everyday interest). Class time is devoted to speaking for everyday needs, grammar practice, pronunciation, intensive listening to short, simplified narratives and listening for specific information in extended narratives and conversations. Students should ideally take this course with “ESL 001: Reading I” and “ESL 005: Sentence Structure.” In addition, three hours of lab instruction per week are required. Prerequisite: Placement tests results or permission of instructor. Corequisite: ESL 029.

ESL 010  Speaking and Listening II  3
This course is a speaking and listening course for low-intermediate ESL students. Students entering the course should be able to answer questions about their own lives, to expand a spontaneous narrative to three or four sentences. Class time is devoted to speaking in various social situations, the practice of grammar, pronunciation and listening for information in conversations and extended narratives. Students should ideally take this course with “ESL 002: Reading II” and “ESL 006: Grammar and Punctuation.” In addition, three hours of lab instruction per week are required. Prerequisite: Placement tests results, permission of instructor or passing ESL 009. Corequisite: ESL 030.

ESL 011  Speaking and Listening III  3
This course is a speaking and listening course for low-intermediate ESL students. Students entering the course should be able to answer questions about their own lives, to expand a spontaneous narrative to three or four sentences. Class time is devoted to speaking in various social situations, the practice of grammar, pronunciation and listening for information in conversations and extended narratives. Students should ideally take this course with “ESL 003: Reading III” and “ESL 007: Transitional Writing.” In addition, three hours of lab instruction per week are required. Prerequisite: Placement tests results, permission of instructor or passing ESL 010. Corequisite: ESL 031.

ESL 012  Speaking and Listening IV  3
This course is the fourth and final Speaking and Listening course in the ESL series. This course is designed to enhance the abilities of non-native speakers of English to articulate the forty-four phonetic sounds of American English, to produce those sounds more easily and accurately in the syllabic combinations and word contexts characteristic of English, to increase fluency in generating complete and correct spoken English sentences, to sharpen awareness of the meanings of paralinguistic features of English such as inflection, intonation, pitch, and syllabic stress. In addition, instruction and strategies involving more effective listening and greater psychological comfort with the non-native speaker situation will be given. Finally, related issues relating to how the human body produces individual speech sounds, how English dialects have developed and how they differ, and the why spoken English isn’t always clearly...
perceivable in the orthography (spelling system) but is always perceivable in the dictionary-based International Phonetic Alphabet, will be explored as class time and circumstances permit. Students should ideally take this course with “ESL 004: Reading IV” and “ESL 008: Writing IV.” In addition, three hours of lab instruction per week are required. Prerequisite: Placement tests results, permission of instructor or passing ESL 011. Corequisite: ESL 032.

ESL 021 Reading Lab I 1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 001. The instructional methods that will be used in the lab instruction course may include—depending on the instructor— all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 001.

ESL 022 Reading Lab II 1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 002. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 002.

ESL 023 Reading Lab III 1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 003. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 003.

ESL 024 Reading Lab IV 1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 004. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 004.

ESL 025 Writing Lab I 1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 005. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 005.

ESL 026 Writing Lab II 1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 006. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 006.

All = Fall, Winter, Spring
ESL 027  Writing Lab III  1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 007. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may be feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 007.

ESL 028  Writing Lab IV  1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 008. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may be feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 008.

ESL 029  Speaking and Listening Lab I  1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 009. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may be feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 009.

ESL 030  Speaking and Listening Lab II  1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 010. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may be feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 010.

ESL 031  Speaking and Listening Lab III  1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 011. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may be feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 011.

ESL 032  Speaking and Listening Lab IV  1
This one-credit lab instruction course is designed to review and reinforce the class materials that are taught in ESL 012. The instructional methods that will be used in the lab instruction course may include—depending on the instructor—all or some of the following student learning strategies:
1. computer-based instruction using special software
2. pencil and paper assignments and practice drills
3. testing and assessment
4. self-paced student learning
5. individualized instruction by the teacher in response to an ESL student’s learning needs
6. the questions that ESL students should ask an instructor when clarifying expectations on homework assignments
7. providing a private setting where an ESL student may be feel comfortable sharing personal issues or circumstances that impinge on his or her ability to study, come prepared, and do the best work in class
8. learning how to develop effective college study habits, prioritize homework assignments, and manage deadlines.
Corequisite: ESL 012.

ENVIRONMENTAL SCIENCES  

ENV 130  The Environment  3
Application of ecological principles to the study of environment and environmental problems, including resource utilization, water, air and land pollution; specific consideration will be given
to the human alteration of the biosphere. Prerequisite: COM 061 (or appropriate score on placement tests). (All/Summer)

ENV 131 The Environment (Honors) 3
This course is designed to introduce students to basic ecological principles and then apply them to a study of the environment and environmental problems related to human population growth. Topics will include: resource utilization; water, air, and land pollution. Specific consideration will be given to the human alteration of the biosphere. Prerequisite: COM 121 English Composition; eligibility for the Honors Program. (TBA)

ENV 150 The Visible Universe 3
A survey of the cosmic environment with special emphasis on the universality of motion; the structure of the solar system and the Milky Way galaxy are delineated and methods of data acquisition are studied. Extensive use is made of the Planetarium as a problem-solving computer system. Prerequisite: COM 061. (Spring)

ENV 155 The Invisible Universe 3
Development of coordinate systems to locate objects which are not visible to the unaided eye; major topics include astrophotography, radio telescopes, and research satellites; laboratory work involves analysis of photographic data and radio telescope information. (Varies)

ENV 170 Intro. to Environmental Science 4(Lab)
This course is a study of the fundamental concepts of ecology and conservation and a survey of the major environmental issues of today, including biodiversity, human population growth, land use, mineral and energy resources, and air and water pollution. In addition to the scientific and technological principles that pertain to the study of the environment, the course will introduce historical and contemporary economic, political, and legal approaches to environmental protection. Prerequisites: CHE 120; BIO 150. (Spring - even years)

HEA 130 Health Care Professionalism 1
This course will introduce the health care student to professional behavior in the patient care setting. Course topics include a discussion on professionalism in health care, the relationship between the patient and the health professional, and respectful interaction between the patient and the health professional. (Spring)

HEA 140 Internet for Health Care Professionals 1
This course will enable the health care professional to access information on the Internet relevant to their defined interest areas. Each student will develop skills through application of demonstrated techniques of internet research. (Fall/Summer)

HEA 161 Principles of Nutrition 3
This course introduces the student to the fundamental principles of human nutrition, including the biochemistry of nutrients in the body. The practical skills of selecting an adequate and safe eating plan as part of a healthy lifestyle are taught. Related concepts and activities include: food records, the RDAs, food labels, the Food Guide Pyramid, weight control, exercise, and cultural food practices. Students also examine reliable nutrition resources and learn ways to discern myths of food faddism. Prerequisites: COM 061 (or appropriate reading level score on placement tests); high school Biology and Chemistry (provided it has been no longer than 5 years since graduation) or BIO 120 and CHE 120. (Fall)

HEA 170 Intro. to Environmental Science 4(Lab)
This course is a study of the fundamental concepts of ecology and conservation and a survey of the major environmental issues of today, including biodiversity, human population growth, land use, mineral and energy resources, and air and water pollution. In addition to the scientific and technological principles that pertain to the study of the environment, the course will introduce historical and contemporary economic, political, and legal approaches to environmental protection. Prerequisites: CHE 120; BIO 150. (Spring - even years)

HEA 200 Introduction to Pharmacology 2
Basic pharmacologic principles will be introduced. Pharmacologic principles related to the use of selected major classifications of drugs and implications for health care providers relative to the administration of those drugs will be addressed. Pharmacology-related issues will be integrated in course content. Prerequisites: BIO 250 or PNP 110; COM 051; COM 061. (Spring)

HEA 220 Clinical Implications of Laboratory Tests 1
This course is designed for allied health students who wish to increase their understanding of clinical laboratory tests. The course will cover the reasons tests are ordered and the interpretation of lab results in order to provide better patient care. The course will include medical terminology, clinical laboratory personnel, specimen collection, safety, infection control and frequently ordered lab tests. Case studies will be used to correlate laboratory data with disease states. Prerequisites: BIO 250 & BIO 255; COM 061. (Fall)

HEA 299 Seminar (TBA) varies

GEOGRAPHY

GEO 101 Introduction to World Geography 3
A broad introduction to concepts and methods in the discipline of Geography. The course surveys world regions, examining physical, cultural, political, historical and economic aspects as well as the interconnections between regions. Prerequisites: COM 051, COM 061. (TBA)

HEALTH

HEA 110 Health 3
This course presents issues relevant to today's health conscious society and contemporary approaches to maintaining good health. Discussions focus on such topics as stress, hypertension, nutrition, smoking, cancer, sexually transmitted diseases, depression, and AIDS. Prerequisite: COM 061. (All/Summer)

HEA 119 Personal Nutrition 1
This one-credit course enables students to learn basic nutrition principles and apply them to their own eating practices. Topics include energy and weight control, exercise, supplements, food safety, food labels and dining out. Learn the latest about fat, sugar, complex carbohydrates, sodium and fiber. Discover how to get more or less of each. Students will do a limited evaluation of their own eating habits based on the new Food Guide Pyramid and some basic nutrient analysis. Evaluation is followed by problem-solving methods for improving your eating behavior. Finally, students will become familiar with current reliable sources of nutrition information. Prerequisite: COM 061. (Spring)

HEA 299 Seminar (TBA) varies

HEALTH & PHYSICAL EDUCATION

HPE 101 Tennis 2
The focus of this course is on the development and acquisition of skills, techniques, and knowledge to enable students to successfully participate in tennis on a limited basis. Emphasis will be placed on the enrichment, enhancement, and improvement of student's physical, social and mental wellness. Prerequisites: none. (Fall/Spring)

HPE 102 Basketball 2
This course will focus on the skills, techniques, drills, strategies and rules which are essential for effective play in the game of
basketball. The students will engage in drill sessions, small game sessions (three-on-three) and full-court games. Skill testing and game play will form the basis for the evaluation of proper basketball techniques. Prerequisite: COM 021 Basics of College Reading.

HPE 104 Racquetball 2
This course will focus on the rules, skills, techniques, drills and strategies which are essential for effective play in the game of racquetball. The students will engage in drill sessions along with singles and doubles game play. Skill testing, along with game play, will form the basis for the evaluation of proper racquetball techniques. Prerequisite: COM 021 Basics of College Reading.

HPE 106 Volleyball 2
This course will focus on the rules, skills, techniques, drills and strategies which are essential for effective play in the game of volleyball. The students will engage in drill sessions and game play. Skill testing, along with game play, will form the basis for the evaluation of proper volleyball techniques. Prerequisite: COM 021 Basics of College Reading.

HPE 110 Ballroom Dancing 2
The focus of this course is on the development of skills, techniques and knowledge to enable students to successfully participate in ballroom dancing on a lifetime basis. Emphasis will be placed on the enrichment, enhancement and improvement of student’s rhythmic movement that will be applied to different dance rhythms. Prerequisite: COM 021 Basics of College Reading.

HPE 116 Personal Fitness 2
A study of the application of physical fitness techniques (exercise) for both males and females related to the development and improvement of strength, flexibility, and cardiovascular endurance. Area of emphasis include effects of exercise on the physiological systems of the body, development of individualized fitness programs, and development of appreciation of the values derived from such training programs and other lifetime sports activities. Prerequisites: none. (Summer/Winter)

HPE 120 Personal Defense 2
Basic self-defense techniques will be taught with a focus on balance, reaction, confidence, safety and awareness. The issue of violence and possible alternative will be explored. Discussion and lecture time will be utilized throughout the course as well as hands-on participation. Both cognitive and psychomotor skills are necessary components of this course. (Summer)

HPE 125 Strength Training & Conditioning 2
This course emphasizes the safe and effective techniques involved with progressive resistance weight training. Free weights, resistance machines and specific strength exercises are incorporated in the development of individuals training programs. Emphasis will be placed upon individual needs for developing strength, endurance and flexibility. Equipment consideration, maintenance, safety, organization and injury prevention are covered. Prerequisite: HPE 116. (Fall/Spring)

HPE 130 Introduction to Rock Climbing 2
Students will learn the fundamentals of safe rock climbing and the terminology inherent to both indoor and outdoor climbing as well as practice various body positions, handholds, and footwork. Discussion and lecture time as well as hands on participation will be utilized throughout the course. The course emphasizes cooperation and communication while practicing climbing as a member of a group and on an individual basis. (Summer/Winter)

HPE 140 Beginning Swimming 2
The focus of this course is on the development and acquisition of skills and knowledge needed to achieve the fundamentals of swimming. Prerequisite: COM 021 Basics of College Reading.

HPE 142 Intermediate Swimming 2
The focus of this course is on the continued development and acquisition of skills and knowledge needed to achieve a higher level of swimming. Students should know how to swim freestyle and backstroke. Prerequisite: HPE 140 Beginning Swimming or permission of instructor.

HPE 144 Aquatic Exercise 2
The focus of this course is on the development and acquisition of skills and knowledge needed to understand and execute the fundamentals of water exercise. Prerequisite: COM 021 Basics of College Reading.

HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION

HAC 100 Introduction to Refrigeration 3
This course covers the design and function of the major components of a refrigeration system. The refrigerant cycle and heat transfer will be discussed. Particular attention is placed on the use of hand tools and service procedures. Prerequisite: COM 061. (Fall)

HAC 101 Introduction to Refrigeration Lab 1
The lab is designed to provide a hands-on approach in the proper installation and service of a refrigeration system. Particular attention will be given to the procedures of leak detection, evacuation and charging of a refrigeration system. Prerequisite: HAC 100 may be taken concurrently. (Fall)

HAC 110 Architectural Blueprint Reading 3
The basic principles of reading and interpretation of architectural drawings will be presented. Emphasis is placed on the skills that are needed to understand the drawings and relate them to the building trades. The course will include these major topics: Architectural Floor Plans, Architectural Section Drawings, Mechanical System Drawings, Plumbing Systems Drawings, Electrical System Drawings. (Fall)

HAC 120 Introduction to Electricity 3
This course introduces the student to the fundamental principles of voltage, current, resistance and magnetism. Also, these principles will be applied to series circuits, parallel circuits, and electrical meters. Prerequisite: MAT 110 may be taken concurrently. (Winter)

HAC 121 Introduction to Electricity Lab 1
The lab is designed to give a hands-on understanding of direct and alternating current as they apply to series and parallel circuits. Electric meters, capacitors and three phase circuits will also be emphasized. Prerequisite: HAC 120 may be taken concurrently. (Winter)

HAC 130 Heating, Ventilation, Air Conditioning & Refrigeration Electrical Controls 3
This course covers the design and function of various heating, ventilation, air conditioning and refrigeration electrical controls. Basic electric motors and their starting components will also be discussed. Special emphasis will be placed on troubleshooting these electrical controls. Prerequisite: HAC 120. (Winter, Spring)

All = Fall, Winter, Spring
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAC 131</td>
<td>Heating, Ventilation, Air Conditioning and Refrigeration</td>
<td>1</td>
<td>This lab covers the drawing of wiring schematics as well as the building and troubleshooting of various refrigeration and air conditioning control systems. Prerequisite: HAC 130 and HAC 121. (Winter, Spring)</td>
</tr>
<tr>
<td>HAC 140</td>
<td>Commercial Refrigeration</td>
<td>3</td>
<td>This course will cover the design, installation and service of commercial refrigeration equipment and components. Special emphasis will be placed on troubleshooting of electrical components as well as the mechanical system. Prerequisites: HAC 100, HAC 130. (Winter, Spring)</td>
</tr>
<tr>
<td>HAC 141</td>
<td>Commercial Refrigeration Lab</td>
<td>1</td>
<td>This course covers the complete installation of a walk-in cooler/freezer and ice machine. Special emphasis will be placed on service techniques and troubleshooting. Prerequisite: HAC 131 and HAC 101, HAC 140. (Winter, Spring)</td>
</tr>
<tr>
<td>HAC 150</td>
<td>Heating and Air Conditioning Systems</td>
<td>3</td>
<td>This course covers the fundamentals of heating and air conditioning systems in use today. System efficiencies, venting practices and sizing will be discussed. Special emphasis will be placed on installation, maintenance and troubleshooting. Prerequisite: HAC 140. (Spring)</td>
</tr>
<tr>
<td>HAC 151</td>
<td>Heating &amp; Air Conditioning Systems Lab</td>
<td>1</td>
<td>This course is designed to cover the practical application of installing, maintenance and troubleshooting of gas, oil and electric heating systems. Prerequisite: HAC 141 and HAC 150. (Spring)</td>
</tr>
<tr>
<td>HAC 200</td>
<td>Psychrometric Charts &amp; Heat Loads</td>
<td>3</td>
<td>This course will cover the data and procedures necessary to accurately calculate heat gain and heat loss of residential and commercial buildings. Psychrometric charts and their relevance to human comfort will be covered. Prerequisites: CHE 120; HAC 150 (may be taken concurrently); and MAT 165. (Spring)</td>
</tr>
<tr>
<td>HAC 210</td>
<td>Air Distribution</td>
<td>3</td>
<td>This course will cover the dynamics of air distribution as they apply to air movement through a mechanical system. The effects on human comfort and health from the air distribution system will be covered as well as the procedures for duct design and layout. Prerequisites: HAC 150; HAC 200 (may be taken concurrently); and PHY 150. (Spring)</td>
</tr>
</tbody>
</table>

**HISTORY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 110</td>
<td>History of the United States to 1877</td>
<td>3</td>
<td>The course is a survey of the major elements in the development of the United States from the European settlements through 1877. The colonial experience, the Revolutionary War period, the Early Republic, the Jacksonian Era, the expansion and sectionalism of this country, the Civil War, and the Reconstruction Period will be covered. Prerequisites: COM 051; COM 061. (Fall/Spring)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 115</td>
<td>History of the United States Since 1865</td>
<td>3</td>
<td>This course covers the period from the Hayes administration to the present: industry, labor and the farmer during the nineteenth century; the Progressive movement; the emergence of the United States as a world power through two world wars; the Great Depression and the New Deal; the problems of the United States in the contemporary world. Prerequisite: COM 051; COM 061. (Winter)</td>
</tr>
</tbody>
</table>

**HUMANITIES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 210</td>
<td>Multi-Cultural Aspects of Art</td>
<td>3</td>
<td>This course will focus on art made by Latinos, African-Americans, and Native Americans from both a historical point of view and a contemporary venue. Socioeconomic, personal, and historical factors will be examined when tracking the evolution of work made within a culture. Emphasis will be placed on viewing art, interpreting the images seen, and interacting via group discussions and presentations. Prerequisites: COM 121. (TBA)</td>
</tr>
</tbody>
</table>

All = Fall, Winter, Spring
HUM 221 Music Appreciation 3
This course provides background in music and establishes the relationships of music with art, literature, and history. Topics for class discussion include selected masterpieces, the works of composers, musical forms and the styles of the baroque, classical, romantic, and contemporary schools. Recorded compositions of each school will be studied, analyzed, and compared. Prerequisite: COM 121. (Spring)

HUM 231 World Literature I 3
Selected works from ancient times to 1600 C.E. are examined to show the development of humanities and the development and characteristics of the major literary genres. Prerequisite: COM 121. (Winter)

HUM 235 World Literature II 3
Selected works from the sixteenth to the twentieth centuries are examined to show the changing forms of literature including revision of genre characteristics and the emergence of new themes, conflicts, and values. Prerequisite: COM 121. (Spring)

HUM 241 American Literature I 3
The works of major American writers from the Colonial period to the Civil War period are examined. Cultural and philosophic ideas reflected in the literature of these periods are discussed. Prerequisite: COM 121. (Fall)

HUM 245 American Literature II 3
The works of major American writers of the late nineteenth and early twentieth centuries are examined. The changing cultural and philosophic ideas represented in the literature are discussed. Prerequisite: COM 121. (Winter)

HUM 249 Contemporary American Literature 3
The works of the major contemporary writers from 1950 to the present are examined. The changing cultural and philosophic ideas represented in the literature are discussed. Prerequisite: COM 121. (Spring)

HUM 251 Introduction to Drama 3
The course explores the nature and development of dramatic literature. In addition to focusing on the literary techniques in representative works students also examine theatrical effects used to interpret individual plays. Prerequisite: COM 121. (Fall)

HUM 255 Introduction to Shakespeare 3
The course introduces students to a sampling of Shakespeare’s writings. Students will read and discuss a representative play from each genre - history, comedy, tragedy, and romance - as well as many of the sonnets and a longer poem. Learning enhancements such as video and audio tapes as well as class presentations supplement the reading and class discussion to facilitate students’ ability to write critical papers incorporating literary criticism. Prerequisite: COM 121. (TBA)

HUM 261 History of Film 3
The course is a chronological study of the development of the cinema. At least one movie is shown and discussed each week. Prerequisite: COM 121. (All)

HUM 271 Introduction to Philosophy 3
The course is an introduction to the major questions raised by philosophers about the nature of man, the universe, and society. The course also examines well-known contemporary philosophies such as humanism, pragmatism, and dialecticism. Prerequisite: COM 121. (All)

HUM 275 Introduction to Ethics 3
This course is an introduction to the major questions raised and theories asserted by philosophers on ethical issues such as the nature of good and evil, right and wrong action, the definition of a “virtuous” life, as well as distinctions between concepts such as relative and absolute values. Prerequisite: COM 121. (TBA)

HUM 276 Ethics (Honors) 3
This course will involve students in analysis and evaluation of primary texts of numerous ethical theories, western and eastern, ancient through contemporary. It will also enable students to identify the assumptions and implications of these theories when applied in decision-making of an ethical nature. Students will conduct research using various kinds of primary and secondary print sources, interviews, electronic media, and fieldwork. They will have the opportunity to apply their knowledge of moral theory and methodology by planning, executing, and evaluating projects on certain ethical issues in interdisciplinary fields such as health care, government, counseling, business, journalism, and academics. Ultimately this course will lead students to a deeper understanding of the ethical assumptions and implications involved in their own decision-making processes as well as those of other individuals, social institutions, and cultures. Prerequisite: COM 121; eligibility for the Honors Program. (TBA)

HUM 280 Introduction to Navajo Studies (Honors) 4
This course will engage students in discovery of Navajo philosophy, life ways, language, traditions, healing practices, history and art. Other topics to be explored include such items as the relationship between the Navajo Nation and other political units both local and national. Students will derive information from primary texts and other sources. In the analysis process, students will identify fact from fiction in the readings for the course. Additionally, students will debate issues which reflect both traditional and contemporary concerns of the Navajo. Prerequisites: COM 121 and eligibility for the Honors Program. (TBA)

HUM 281 Leadership Development Studies (Honors) 3
This course provides a forum to explore the concept of leadership and to develop and improve leadership skills. The course incorporates readings from the humanities, experiential exercises, films, and contemporary readings on leadership. Prerequisites: COM 121 and eligibility for the Honors Program. (TBA)

HUM 299 Seminar (TBA) varies

HUMAN SERVICES

HMS 110 Introduction to Human Services 3
This is an introductory course which identifies basic social problems, their causes, treatment, and the effects upon society. The course will put emphasis upon the role and function of the human services worker, the dynamics involved in the helping process, and the problems facing local social agencies which exist to respond to social problems in the community. Prerequisite: COM 051; COM 061. (Fall/Spring Evenings)

HMS 125 Human Services and the Law 3
Introduction to the laws and regulations governing the human service delivery systems. Topics covered include consumer rights, confidentiality, professional ethics, documentation and fiscal management. Prerequisite: HMS 110. (Winter)

HMS 140 Health & Safety in Human Services 3
This course provides basic understanding of appropriate medical terminology, infectious diseases, pharmacology, and basic client care skills, including mobility and transportation.
The course will also focus on household management skills, physical mechanics and OSHA regulations. Prerequisite: HMS 110. (Spring)

**HMS 215 Human Service Methods & Practice I** 4
This is the first of two courses examining the concepts, practice principles, skills, and methods used to provide human services. This course focuses on service delivery to individuals and families. Emphasis is placed on case management a model for service delivery. Topics covered include intake interviewing, assessment, service planning, and interventions. Various ethical and legal issues affecting human service delivery are explored. Case studies are used to illustrate the principles of case management. Laboratory work is used to develop effective intake interviewing skills with a strong focus on the attitude and characteristics of the interviewer. Prerequisites: COM 121; HMS 110; and PSY 120. (Fall)

**HMS 216 Human Service Methods & Practice II** 3
This is the second of two courses examining the concepts, practice principles, skills, and methods used to provide human services. This course focuses on service delivery to groups and communities. Content includes group process, organizational structures, program planning, resource development, and knowledge of community systems. Additional emphasis is placed on technology in human services as method of facilitating documentation, treatment planning, communication, implementation strategies, and professional training. Prerequisites: HMS 215 and SST 110. (Winter)

**HMS 240 Poverty and Social Welfare Policy** 3
This course focuses on current social policy issues as they affect the following major areas of social work practice: poverty, aging, mental health, physical health, and child welfare. Social welfare policies are evaluated from social, economic, and political perspectives. The course provides an historical overview of the major social welfare policies to combat poverty and a critical appraisal of current welfare reform policies. Attention is given to the relationship between research knowledge about poverty and current policies. The effects of gender, ethnicity, and class on patterns of poverty and policy responses are also examined. Prerequisites: COM 121, HMS 110. (Spring)

**HMS 250 Fieldwork in Human Services I** 3
This course will provide students with on-site experience in a variety of human service settings. It includes seminar discussions of experiential learning. Prerequisite: Approval of Division Chair; at least 40 credits earned; cumulative grade point average 2.0 or better; 21 credits earned in Social Science/Human Services courses, including PSY 120 and HMS 215 with grades of “C” or better. (All)

**HMS 251 Fieldwork in Human Services II** 3
This course is a continuation of HMS 250 Fieldwork in Human Services I. Prerequisite: HMS 250. (All)

**HMS 299 Seminar** (TBA) varies

**INFORMATION TECHNOLOGY**

**IFT 101 Introduction to Personal Computers** 1
This course is designed to view the personal computer as a workable tool. The user will learn what a computer is, what it is used for, and how it works in general. Current computer users would also benefit from taking this course to fill in the gaps in their knowledge. While emphasizing the basic workings of a computer, the course will include an overview of software. Prerequisite: COM 061 or appropriate score on placement tests. (TBA)

**IFT 102 Introduction to Windows Software** 1
This course is designed to provide the student with an introductory knowledge of the basics of Windows, an operating system for personal computers. The student will receive instruction and hands-on experience using Windows on PCs. Prerequisites: COM 061 and MAT 020 or appropriate score on placement tests. TBA

**IFT 103 Introduction to Word Processing Software** 1
This course is designed to provide the student with an introductory knowledge of the basics of word processing. The student will receive instruction and hands-on experience using PCs. Although it would be helpful, keyboarding ability is not a necessary skills for successful completion of this course. Prerequisites: COM 061 and MAT 020 or appropriate score on placement tests. TBA

**IFT 104 Introduction to Spreadsheet Software** 1
This course provides students with microcomputer hands-on experience using spreadsheet software to solve a variety of business problems on PCs. Students will create, edit, save, and print worksheets and graphs. Prerequisites: COM 061 and MAT 020 or appropriate score on placement tests. TBA

**IFT 105 Introduction to Presentation Software** 1
This course is designed to provide the student with an introductory knowledge of the basics of presentation software. The student will receive instruction and hands-on experience on PCs. Although it would be helpful, keyboarding ability is not a necessary skill for successful completion of this course. Prerequisites: COM 061 or appropriate score on placement tests. (TBA)

**IFT 106 Introduction to Database Management Software** 1
This course provides students with microcomputer hands-on experience using database software to record, track, and manipulate data on PCs. In addition to the database, students will create reports and forms to output information in a variety of usable formats. Prerequisites: COM 061 or appropriate score on placement tests. (TBA)

**IFT 107 Introduction to the Internet** 1
This course is designed to provide the student with an introductory knowledge of and exposure to the Internet. The student will receive instruction and hands-on experience on PCs. Although it would be helpful, keyboarding ability is not a necessary skill for successful completion of this course. Prerequisites: COM 061 or appropriate score on placement tests. (TBA)

**IFT 108 Introduction to Mail Management Software** 1
This course provides students with microcomputer hands-on experience using mail management software to help manage the sending and receiving of files and messages, regardless of the internet mail service utilized on PCs. Prerequisites: COM 061 or appropriate score on placement tests and MAT 020. (TBA)

All = Fall, Winter, Spring
IFT 110 Microcomputer Applications 3
This course provides students with microcomputer hands-on experience using the essential software packages in use in the majority of business and private operations. Initially, students will learn to use the Windows environment and will also use word processing, spreadsheet, and database software to solve a variety of problems. The specific applications software which will be used includes Windows, Word, Excel, and Access. Students will also access the Internet. Prerequisites: COM 061 or appropriate score on placement tests and MAT 020. (All)

IFT 120 Advanced Microcomputer Applications 3
The course will develop students’ basic skills in introducing graphics into word processing documents. Students will study and use advanced features of spreadsheet packages and will continue his/her development of database management system skills including advanced design and query with emphasis on relational aspects. Students will also develop skills in creating presentations. Students will also incorporate information from the Internet into their document preparation. Prerequisites: IFT 110 and COM 121. (All)

IFT 130 Expert Office Applications 3
This course provides students with the advanced skills needed to efficiently utilize the features of Microsoft Office. Students will be introduced to the proper procedures to create and manipulate sophisticated documents, workbooks, databases, and presentations suitable for coursework, professional purposes, and personal use. At the completion of this course students will be prepared to demonstrate their proficiency in the Microsoft Office applications by taking the Microsoft Office User Specialist (MOUS) exams. Prerequisite: IFT 120. (Spring)

IFT 140 Integrating Office Applications 3
This course provides students with the skills needed to effectively integrate a suite of software applications in order to maximize the software’s capabilities. Students will use a variety of techniques to integrate information among the varying packages of the Microsoft Office suite. Prerequisite: IFT 120. (Winter)

IFT 150 Desktop Publishing 3
This course will help students to write, design, and produce effective publications using new computer software and hardware. Students will see how the writing process is used in developing ideas, planning and drafting articles and closely coordinating final products. Principles of design will be discussed for a variety of genres such as newsletter, brochures and websites. Students will identify opportunities for producing and publishing these documents beyond the classroom. Audience and purpose considerations will be a guideline throughout the writing, designing and publishing process. Additionally, opportunities for producing and publishing these documents will also be identified. Throughout the course, students will develop their skills in using computer software and hardware that will enable them to become desktop publishers. Prerequisites: COM 121 or COM 122 and IFT 110 or permissions of instructor. (Fall/Spring)

IFT 200 Customer Service Principles 1
This course provides students with a background in customer service skills needed by help-desk professionals. Techniques in listening, communications, problem solving, human relations, teamwork, and time management are emphasized. Prerequisites: BUS 100 and IFT 120. (Winter)

IFT 210 Help Desk User Support 3
This course provides students with the skills needed to support computer users within the organization. Students will learn to identify the appropriate tools, technologies, and processes to assess and meet computer user needs. Students will also address many different aspects of the career field of computer user support. Prerequisite: IFT 110. (Spring)

IFT 220 Current Issues in Computing 3
This course will emphasize case studies, discussions, and research concerning state-of-the-art topics and concerns in computing. Students will write papers on topics of current interest and make an oral presentation to the class. It is intended that this course will be taken near the end of the program of study. The specific course content can be expected to vary from one term to the next as new issues rise to the forefront of the field of information technology. Prerequisites: NET 125 and COM 121. (Fall)

LAW ENFORCEMENT

LAW 135 Introduction to Criminal Justice 3
This introductory course is a comprehensive overview of the criminal justice system. The courses focuses on crime in America, police process, courts and punishment, the prison system, and contemporary topics in law enforcement. Prerequisites: COM 051; COM 061. (Fall)

LAW 140 Criminal Law 3
An introduction to the Pennsylvania Crimes Code, including culpability, use of force, Act 64 (Drug Act), laws of search and seizure, preparation of citations, complaints, arrest and search warrants, and miscellaneous laws. Prerequisites: COM 051; COM 061. (Winter)

LAW 150 Legal Procedures 3
An examination of the judicial process and its relationship to the Rules of Criminal Procedures. The course focuses on the federal and state constitutions, the Civil Rights Act, Civil torts, rules of evidence, Act 141 (Municipal Police Officers Jurisdiction Act). Procedures for service of search and arrest warrants, interrogation of defendants, and prosecution of cases are also included in the course. Prerequisites: COM 051; COM 061. (Spring)

LAW 180 Crisis Intervention Strategies 3
This course will provide a basic understanding of the characteristics of a crisis situation and the typical individual response to crisis. Additionally, models of crisis intervention will be presented. Emphasis will be placed on the six-step model of crisis intervention, assessing the crisis situation, employing crisis strategies, approaching specific crisis situations and determining lethality. Prerequisites: COM 051; COM 061. (TBA)

LAW 185 Criminology 3
Introduces historical and criminological theories with emphasis on the criminal justice system and its role in crime prevention. Prerequisites: COM 051; COM 061. (TBA)

LAW 210 Law Enforcement Management I 3
This course is designed to prepare the student to be an administrator of a law enforcement agency by providing basic skills in planning, evaluation and revision of goals, budgets, programs, policies and procedures, and the acquisition and allocation of human and material resources. Prerequisites: COM 121; LAW 135. (Fall)

LAW 230 Interviewing & Interrogation Skills 3
Methods used in interviewing witnesses and victims, interrogating suspects in order to obtain valid confessions. The focus is on establishing rapport, perceiving body language and obvious attempts at deception, use of the polygraph, and techniques for verbally disarming the interviewee. Prerequisites: LAW 150; COM 121. (Fall)
LAW 250 Criminal Investigation 3
This course is a thorough overview of the criminal investigation process as it coincides with law enforcement procedures. Evaluation and use of investigation processes will be covered. Prerequisites: LAW 150; COM 121. (Winter)

LAW 255 Law Enforcement & Community Relations 3
The course will include a general overview of the Criminal Justice System, the responsibilities of each component of the system and the interaction among various agencies. Public community skills are an integral part of police work. The course is designed to help students develop skills to build rapport within the community including researching, planning, scheduling, and presenting programs of public interest as well as developing and maintaining good relations with representatives of schools, social agencies, the news media, and the community at large. Prerequisite: COM 121. (Spring)

LAW 270 Organized Crime in America 3
This course is an in-depth study of organized criminal activity; its history, social, economic, and political impact upon American society, focusing on traditional organized crime, new emerging racial and ethnic groups, and modern law enforcement procedures and judicial prosecutions. Prerequisites: COM 121; LAW 150. (TBA)

LAW 280 Law Enforcement Management II 3
This course focuses on management skills needed by the law enforcement administrator in the performance of both day-to-day and long-term activities. Topics include delegation, decision-making, problem solving, disciplinary procedures and commendations, response to community needs, supervision of law enforcement activities, evaluation of police reports, allocation of manpower, schedule preparation, and acquisition of equipment. Prerequisite: LAW 210. (Spring)

LAW 285 Juvenile & Domestic Law 3
This course will provide a knowledge of laws pertaining to juvenile and family-related crimes and offenses. Specific topics will include Juvenile Law, Domestic Violence Act, Protection from Abuse Act, and Child Protective Services Act. Prerequisite: COM 121; LAW 150. (Spring)

LAW 290 Cooperative Education I (All) Varies
Prerequisite: 27 credits earned in student's curriculum with a 2.0 QPA.

LAW 291 Cooperative Education II (All) Varies
Prerequisite: 27 credits earned in student's curriculum with a 2.0 QPA.

LAW 299 Seminar (TBA) Varies

MACHINE TOOL TECHNOLOGY Credit Hours

MTT 120 Machine Tool Mathematics I 3
This course is designed to provide the mechanist/tool and die maker with the information and computational skills commensurate to attaining competence in solving applied problems involving arithmetic, fractions, decimals, powers, roots, English and Metric units, tolerance, clearance, interference, fundamental principles of algebra, cutting speed and application of formulas. Prerequisite: Appropriate Score on MTT placement tests Battery. (Winter)

MTT 125 Machine Tool Mathematics II 3
This mathematics course is designed to provide the student with the information and computational skills commensurate to attaining competence in solving applied problems involving fundamentals of place geometry and trigonometry. Prerequisite: MTT 120. (Spring)

MTT 131 Engineering Graphics I & Blueprint Reading 3
As an introduction to mechanical drafting and sketching, this course is designed to provide the machinist apprentice and others working in the industry with a basic understanding of the “language of industry” called graphics. The student will learn and apply the fundamental principles of mechanical drafting and sketching to graphically describe machine parts. A major goal of the course is to provide the student with the knowledge to be able to completely and accurately describe machine parts by making and using working drawings. Individual instruction is provided along with lecture presentations and hand out materials. The basic principles of reading and interpretation of industrial drawings will be presented. Emphasis is placed on the skills that are needed to understand the drawings and relate them to the machine trades. The course will include these major topics: lines and symbols; orthographic projection; one, two, and three view drawings; auxiliary views; dimensions and tolerances; sectioning and thread representation. Prerequisite: MTT 120. (Spring)

MTT 135 Blueprint Reading II 3
This is the second course of the blueprint reading sequence which is designed to provide the student with the skills required to interpret intermediate to difficult machine drawings. Emphasis will be placed on stimulating the student's creativity while encouraging adoption of proven techniques and analytical procedures. These procedures are designed to enhance problem solving skills and to permit greater ease in gathering graphical information critical to visualizing an object. Prerequisite: MTT 131. (Winter)

MTT 140 Blueprint Reading III 3
This advanced blueprint reading course is designed to provide the student with the skills required to interpret complex machine tool industrial drawings. These drawings include: assemble, special feature, multi-scale and relatively complex die, mold and cast part drawings. Prerequisite: MTT 135. (Spring)

MTT 151 Introduction to Metalworking 3 (Lab)
This course is designed to provide the machinist/apprentice and die maker student with an introduction to the machining industry. Theoretical and practical aspects of shop safety, hand tool usage, precision layout, use of precision measuring instruments accurately, use of taps and dies, files, reamers, and identification and use of the appropriate materials. Students are prepared to take the National Institute of Metalworking Skills (NIMS) level I certification in layout and benchwork. Prerequisites: MTT 151, MTT 120, and MTT 165. (TBA)

MTT 152 Basic Power Tools 2 (Lab)
This course is designed to provide the student with knowledge and practical learning experience and accident prevention awareness required to perform various tasks using basic power tools such as: drill presses, power saws, pedestal grinders, and hand power tools. Students are prepared to take the National Institute of Metalworking Skills (NIMS) level I certification in drilling. Prerequisite: MTT 151. (TBA)

MTT 156 Turning Technology 3 (Lab)
This course is designed to provide the student with knowledge and practical learning experience and accident prevention awareness required to perform basic conventional lathe job planning, set-up and operation. Aspects of conventional, as well as carbide and other tooling materials selection, preparation,
MTT 165  Machine Theory I 3
This course is designed to provide the student with an introduction to the machine tool industry. Theoretical aspects of shop safety, hand tool usage, precision measurement, materials, precision layout and machining preparations are addressed in this course.

MTT 170  Machine Theory II 3
This course is the second course in machine tool theory. In this course, the following machine tools and their proper operations are addressed: sawing machines, drilling machines. Prerequisites: MTT 165.

MTT 201  EDM Theory-Conventional & Wire 3
This course is the third of three courses in machine tool theory. In this course, the theories involved in unconventional machining practices will be discussed. Primarily focused on EDM machining, the student will gain an understanding of how these technologies work and their place in industry. Prerequisite: MTT 125.

MTT 211  Milling Technology 3(Lab)
This course is designed to provide the student with knowledge and skills necessary to identify and safely use the various milling cutters and other tools that are adaptable to milling machines, and set-up work pieces to be properly machined using vertical and horizontal milling machines. This course covers the names of the vertical and horizontal milling machine parts and controls, the function of each part and control so that the students can operate the machines safely and with a high degree of accuracy. Students are prepared to take the National Institute of Metalworking Skills (NIMS) level I certification in milling. Prerequisite: MTT 151.

MTT 221  Grinding Technology 3(Lab)
This course is designed to provide the student with learning experiences in theoretical and practical skills development in precision grinding operations. The student will use a variety of surface and form grinders, applying various techniques to make metal parts to blueprint specifications. Students are prepared to take the National Institute of Metalworking Skills (NIMS) level I certification in grinding. Prerequisite: MTT 151.

MTT 240  Metrology 3
This course is designed to provide the student with an experience in the use of precision instruments for measurement and inspection of manufactured parts. The course includes the use of comparators, micrometers, surface plates and accessories, microscopes, hardness testing instruments, and other related equipment. Students gather and analyze quality assurance data and inspect parts using non-destructive testing techniques (NDT). Students are prepared to take the National Institute of Metalworking Skills (NIMS) level I certification in measurement, materials, and safety. Prerequisites: MTT 125, MTT 140, MTT 211, MTT 156, and MTT 221.

MTT 261  Basic CNC Programming, Milling & Turning Theory 3
The purpose of this course is to make the student aware of the history and evolution of the CNC machine starting with the simple NC units. This knowledge will enable the student to understand how the modern machines operate while appreciating the advantages afforded by CNC. The course stresses safe operation as well as basic languages and formats used in programming. Students will learn all of the various functions of the control units as well as how to write and apply simple programs. Milling and Turning theory are also addressed in order to provide the student with a working knowledge of all facets of CNC machining processes. Prerequisite: MTT 125.

MTT 265  CNC Fixture Design 2(Lab)
This course covers the design and function of various jigs and fixtures used for the production of consistent tools. Different design features and methods will be discussed. Particular attention will be given to the proper design and construction of fixtures. Prerequisites: EGR 106, MTT 125.

MTT 271  Advanced CNC Milling 3(Lab)
This course will provide the student with the necessary skills to safely program, set up, operate and maintain CNC milling centers. This course will include manual part programming and practical operation for Computer Numerical Control (CNC) milling machines. Trigonometry, blueprint reading, drafting and basic machining skills will be practiced extensively. Students are prepared to take the National Institute of Metalworking Skills (NIMS) level II certification in CNC Mill Operation. Prerequisites: MTT 261.

MTT 276  Advanced CNC Turning 3(Lab)
This course is designed to teach the student manual part programming for Computerized Numerical Control (CNC) lathe and turning applications. Included in this course is the practical operation of the CNC turning center. It is designed for students who plan to enter the machining industry or need to update their skills in Computerized Machining. Students are prepared to take the National Institute of Metalworking Skills (NIMS) level II certification in CNC Lathe Operation. Prerequisites: MTT 261.

MTT 281  Mastercam Programming Levels I & II 2(Lab)
This course is the first of two courses in Mastercam Programming. This course will provide the student learning experiences in computer aided programming with Mastercam software. The course will include system hardware, Windows applications, and mill and lathe part manufacture. The beginning student will use the software to create 2D-part design and contour toolpaths for milling and turning parts. Prerequisite: MTT 261.

MTT 286  Mastercam Programming Level III 2(Lab)
This course is the second course in Mastercam Programming. This course will provide the student learning additional experiences in computer assisted CNC Programming with Mastercam software. This course will include advanced 2D and 3D part construction and code generation. The student will use the skills gained from Mastercam Programming Levels I & II to construct more difficult parts. The course also includes code generation, machine file & template file manipulation, code generation testing and verification. Prerequisite: MTT 281.

MTT 287  Conventional EDM Machining 2(Lab)
This course is designed to provide students with an introduction to plunge electrical discharge machining. By developing programs and using various setup techniques, students will gain an understanding of the capabilities and limits of plunge EDM's. The course stresses safe operation, as well as, efficient job planning. Students will learn various functions of the control unit, as well as, how to write and apply simple programs. Students are prepared to take the National Institute of Metalworking Skills (NIMS) level II certification for (5 Axis) wire EDM operations.

MTT 288  Wire EDM Machining 2(Lab)
This course is designed to provide the machinist/tool and die maker with the information necessary to safely set-up, maintain and operate a wire EDM machine. This course will include CAM Programming of parts from blueprints followed by sending the program through a post processor via a DNC Network to the Wire EDM machine. This course will also include Manual Data Input (MDI) for simple wire programs and program editing. Students are prepared to take the National Institute of Metalworking Skills (NIMS) level II certification for (5 Axis) wire EDM operations.

MTT 290 Cooperative Education I (All) Varies
MTT 291 Cooperative Education II (All) Varies
MTT 299 Seminar (TBA) Varies

MANAGEMENT

Credit Hours

MGT 100 Principles of Management 3
Introduction to the major functions of management - planning, organizing, staffing, directing, and controlling. Emphasis is also given to the related topics of interpersonal relationships, organizational behavior, cooperation, decision making, problem solving, and corporate social responsibility. If the student's curriculum includes BUS 100, we recommend that it be taken prior to MGT 100. Prerequisites: COM 051, COM 061. (Winter/Spring)

MGT 140 Administrative Office Management 3
An introduction to recent advances in administrative services and information processing as they relate to the administrative office manager. Emphasis will be placed on administrative systems analysis; office layout, environment and furniture; automated equipment capability; records management and forms control; budgetary and cost control; personnel selection and development; and effective administrative managerial techniques. Prerequisite: COM 061; Strongly recommended: BUS 106. (Winter)

MGT 200 Human Resources Management 3
Introduction to the development of a well-balanced human resources program for organizations, based on the fact that all managers have personnel-related duties and human resources are the key to organizational success. Topics include recruitment, selection, training, compensation, benefits, motivation, performance appraisal, legal issues, and union-management relations. Prerequisite: MGT 100, COM 121. (Fall)

MGT 210 Supervisory Management 3
Refines the skills needed for the day-to-day activities of a first-line supervisor. Applies the principles of delegating, planning, organizing, motivating, leading, staffing, training, compensating, and appraising. The student will be actively involved in dealing with the challenges faced by this critical member of the management team. Prerequisite: MGT 100, COM 121. (Winter)

MGT 220 Retail Management 3
A study of retailing with emphasis upon modern technical developments, new management methods, and new tools that are being utilized by retail management. Prerequisite: MGT 100, COM 121. (Spring)

MGT 230 Small Business Management 3
A capstone to your management studies, this course focuses on the development of your entrepreneurial skills. It is a survey of the opportunities and difficulties faced by individuals who wish to own and/or operate a small business. Topics include entrepreneurship, forms of ownership, franchises, planning, financing, location, profitability, legal issues, taxation, human resources management, and marketing. Students will develop a business plan using spreadsheet software on a microcomputer. Prerequisites: IFT 110; MGT 100. (Spring)

MGT 240 Compensation Management 3
This course explains the origins of wages and salaries, the framework of the administrator, the fundamentals of job descriptions, evaluation and analysis of job performance, compensation methods and wage incentive structures, merit rating, managerial compensation, and wage and salary administrative controls. Prerequisites: MAT 150 and MGT 100. (Fall)

MGT 250 Operations Management I 3
This course provides the student with instruction in basic system design, functions and principles of planning, forecasting techniques, work authorization, management control, statistical control, development of loading and scheduling systems, dispatching, progress reporting on work accomplishment, control analysis, methods and time study, and qualitative and quantitative evaluation. Prerequisites: MAT 150 and MGT 100. (Winter)

MGT 255 Operations Management II 3
This course provides the student with instruction in basic principles and methods regarding total quality, total quality management, and total quality and organizational theory, organizational behavior, and strategic management. Prerequisite: MGT 250. (Winter)

MGT 260 Facilities Planning and Design 3
This course examines the basic factors which influence the planning of new and existing manufacturing and service facilities. Students will learn how to use analytical models and fact-based decision making while determining requirements for all people, equipment, space, and material handling in the facility. Prerequisites: MAT 150 and MGT 100. (Spring)

MGT 290 Cooperative Education I (All) Varies
MGT 291 Cooperative Education II (All) Varies
MGT 299 Seminar (TBA) Varies

MATHEMATICS

Credit Hours

MAT 010 Math Skills Review 0
Math Skills Review is a self-paced course. It is a review of arithmetic concepts. The content includes whole numbers, fractions, decimals, ratio and proportion, and percents. Prerequisites: COM 009, or placement by assessment. (All)

MAT 015 Math Fundamentals 4
Math Fundamentals is a self-paced course. It is a review of arithmetic and algebraic concepts. The content includes whole numbers, fractions, decimals, ratio and proportion, percents, statistics, U.S. Customary Units of Measurement, metric system of measurement, rational numbers, introduction to algebra, and geometry. MAT 015 Math Fundamentals and MAT 020 Basics of College Math are equivalent courses and contain the same course content. Prerequisites: COM 021 (may be taken concurrently) or placement by assessment. (All)

MAT 020 Basics of College Mathematics 3
This course is a review of arithmetic and algebraic concepts. The course includes whole numbers, introduction to algebra, solving equations, fractions, decimals, ratio and proportion, introduction to graphing, and percent. MAT 015 Math Fundamentals and MAT 020 Basics of College Math are equivalent courses and contain the same course content.
Prerequisite: MAT 015 or MAT 020; COM 061 or placement by assessment. (All/Summer)

MAT 025 Algebra Fundamentals 4
This course includes a review of real numbers and the order of operations. The focus of the course is on algebraic topics: exponents, polynomials, linear equations and inequalities, applications of linear equations, graphing linear equations and inequalities, radicals, factoring, rational expressions, systems of linear equations, and quadratic equations. MAT 025 Algebra Fundamentals and MAT 030 Algebra I are equivalent courses and contain the same course content. Prerequisites: MAT 015 or MAT 020; COM 061 (may be taken concurrently). (Winter/Spring)

MAT 030 Algebra I 3
This course includes a review of real numbers and the order of operations. The focus of the course is on algebraic topics: exponents, polynomials, linear equations, applications of linear equations, graphing linear equations and inequalities, radicals, factoring, rational expressions, systems of linear equations, and quadratic equations. MAT 025 Algebra Fundamentals and MAT 030 Algebra I are equivalent courses and contain the same course content. Prerequisite: MAT 015 or MAT 020; COM 061 or placement by assessment. (All/Summer)

MAT 110 Algebra II 3
This course reinforces polynomials, rational expressions, first-degree equations and inequalities (including absolute values), exponents, radicals, and complex numbers. An emphasis will be placed on the following topics: second-degree equations and inequalities, graphing involving two variables, systems of equations, relations and functions, and exponential/logarithmic functions. Prerequisite: MAT 030 with a "C" or better or placement by assessment. (All/Summer)

MAT 150 Foundations of Mathematics 3
This course places as much emphasis on the modern mathematical ideas and their meaning as on computation; includes systems of numeration, finite mathematical systems, set theory, logic, an introduction to probability, counting theory, statistics, and some additional topics in geometry. Prerequisites: MAT 050. (All/Summer)

MAT 155 Foundations of Mathematics II 3
This course places emphasis on problem solving and application of mathematical concepts as well as on computation. Topics covered include number theory, number representations and calculations, patterns and algebraic thinking, graphs and functions, graph theory and motion geometry. Prerequisites: MAT 150. (Spring)

MAT 160 College Algebra 3
Topics covered include: review of quadratic and higher degree equations and inequalities; properties of functions and graphs including algebraic, polynomial, rational, exponential and logarithmic functions; systems of equations and inequalities with an introduction to matrices, determinants; elementary concepts of analytic geometry. Prerequisite: MAT 110 with a "C" or better or placement by assessment. (All)

MAT 165 Trigonometry 3
This course includes right triangle and oblique triangle trigonometry, trigonometric functions of real numbers, identities, equations and graphs of the trigonometric functions, inverse functions, logarithms, and vectors. Prerequisite: MAT 160 or placement by assessment. (All)

MAT 180 Precalculus 3
An overview of algebraic and trigonometric principles. Emphasis is placed on functions in both disciplines. The theory of mathematics is stressed and the concept of the limit is presented. Topics covered include: functions, polynomials, exponentials, logarithms, theory of equations, inequalities, partial fractions, trigonometry, analytic geometry, and binomial theorem. Prerequisite: MAT 165 or placement by assessment. (Winter/Spring)

MAT 210 Statistics 3
An introduction to statistical concepts including: understanding of an ability to use graphs, frequency distributions, measures of central tendency and dispersion, probability, various distributions and their properties, testing hypotheses, approximation and Chi-square tests, regression and correlation. Prerequisite: MAT 030. (Fall/Spring)

MAT 220 Calculus I 4
An overview of calculus, introducing the concepts of function notation, tangent; the derivative; derivative of polynomials; the chain rule, derivatives of powers; products; quotients; implicit functions; higher derivatives; the antiderivatives and applications; analytic geometry; graph sketching; and derivatives of trigonometric functions. Prerequisite: MAT 180 or placement by assessment. (Fall)

MAT 221 Calculus II 4
Topics covered include transcendental functions, derivatives of inverse trigonometric functions, techniques of integration, applications of definite integrals, improper integrals, simple differential equations and infinite series. Prerequisite: MAT 220. (Spring)

MAT 222 Calculus III 4
Continuation of Calculus II. This course will use all the elements of elementary calculus beginning with sequence and series including Maclaurin and Taylor series. The course will also cover more advanced applications using partial derivatives and multiple integrals. An introduction to vector calculus and simple differential equations will be covered. Prerequisite: MAT 221. (Winter)

MAT 299 Seminar (TBA) varies

MECHATRONICS ENGINEERING TECHNOLOGY Credit Hours

MET 100 Introduction to Shop Machinery 1
This course introduces the student to the safe operation of the basic hand tools and machinery that might be found in a commercial or industrial maintenance department. Subjects include the use of metal working bench tools, layout and setup tools, band saws, drill presses, manual milling machines, and the manual lathe. All course material is supplemented with practical hands-on exposure with the machines and operations described.

MET 110 Manufacturing Fundamentals 3
This course provides the student with an overview of the various types of manufacturing that takes place in the discrete, hybrid and continuous sectors and of the jobs that must be performed within manufacturing. The course provides an introduction to the techniques and resources that manufacturers employ to improve operations, preparing the student for independent investigating and life-long learning. It provides basic knowledge and skills with regard to blueprint reading, CADD drawing, measurement and quality assurance. At least one plant tour will be included as part of this course to provide first hand validation of the topics covered. Prerequisite: COM 061, MAT 110.
MET 120  Industrial Mechanics I  3
This course covers the principles and applications of the most commonly found mechanical drive and fluid power components in an industrial manufacturing environment. Topics include mechanical power transmission devices, pneumatics, and hydraulics through an intermediate level along with related construction and troubleshooting techniques. Completion of this course provides the student with all of the mechanical skills and knowledge required by the National Center for Integrated Systems Technology (NCIST) Advanced Manufacturing Curriculum in Integrated Systems Technology. All course material is supplemented with practical hands-on exposure to the items described. Prerequisite: MET 130. (TBA)

MET 130  Industrial Electrical Systems  4
This course covers the principles and application of alternating (AC) and direct (DC) current electricity, industrial sequential control and electrical controls construction as found in a typical manufacturing environment. Topics include AC and DC circuit analysis and measurement in resistive, capacitive and inductive circuits; AC fixed speed motor control; control transformers, relays, timers, and counters; mechanical, pneumatic and hydraulic input and output devices; sequencing and logic functions; introduction to component and systems troubleshooting; electrical wiring practices; conduit and raceways; and requirements for conductors, disconnects and raceways as specified by the National Electric Code (NEC). Completion of this course provides the student with all of the basic electrical skills and knowledge required by the National Center for Integrated Systems Technology (NCIST) Advanced Manufacturing Curriculum in Integrated Systems Technology. All course material is supplemented with practical hands-on exposure to the items described. Prerequisite: MAT 110. (TBA)

MET 140  Introduction to Programmable
Logic Controllers – SLC500  4
This course covers the principles and application of programmable logic controllers (PLCs) as found in a typical manufacturing environment. Topics include principles, functions and operation of PLCs; basic ladder logic programming with relays, timers and counters; digital input and output interfacing; intermediate instructions such as program flow, subroutine, math, and data move; analog interfacing and associated instructions; basic multi-drop networking; operator display station application; use of remote inputs and outputs; and component and systems troubleshooting. Upon completion of this course the student will have exceeded the knowledge and skill requirements of the National Center for Integrated Systems Technology (NCIST) Advanced Manufacturing Curriculum in Integrated Systems Technology. All course material is supplemented with practical hands-on exposure to the items described. The Rockwell Allen Bradley SLC500, DH-485, RSLinx, PanelView 1000, and Panelbuilder 32 products are used in the teaching of this material. Prerequisite: MET 130. (TBA)

MET 150  Industrial Mechanics II  4
This course builds and expands upon Industrial Mechanics I by covering the principles and applications of additional mechanical drive and fluid power components, expanding upon troubleshooting and looking at predictive and preventative maintenance techniques. Topics include mechanical power transmission devices such as gear drives and ball screws; laser alignment techniques; pneumatic logic, pressure and vacuum systems; vibration analysis; and central lubrication. All course material is supplemented with practical hands-on exposure to the items described. Prerequisite: MET 120, PHY 150. (TBA)

MET 160  Rotating Electrical Machines  3
This course covers the principles, application, troubleshooting and maintenance of rotating electrical motors and electronic motor drives as used in industry. Topics include various types of single and three phase AC motors, various types of DC motors, reduced voltage starting, braking, DC electronic drives, and AC variable frequency and vector drives. The course builds upon principles and applications covered in Industrial Electrical Systems and is a building block for the course Robotics and Motion Control. All course material is supplemented with practical hands-on exposure to the items described. Prerequisite: MET 130. (TBA)

MET 200  Robotics and Motion Control  4
This course provides the student with a background in the programming and application of industrial robots and general purpose synchronized multi-axis motion control. Whereas in Rotating Electrical Machines the student learned how various types of motors and drives operate to create motion in a single axis, this course expands upon those concepts by combining multiple axes of motion to perform useful functions such as creating a flexible manufacturing system utilizing robots. In Introduction to PLCs, the student learned how to apply programming to create sequences of events. This course broadens that knowledge by using different programming languages to initiate and control motion sequences. The student will learn how to implement electronically many of the simple machines introduced in Industrial Mechanics 1 & 2 such as gear drives, belt drives, line shafts and cams. This course also introduces the student to techniques and products that are based upon IEC international standards and discusses the concepts of standards-based control. Prerequisite: MET 140, MET 160 (TBA)

MET 210  Process Control & Instrumentation  3
This course covers the fundamentals of process control and instrumentation as applied in industry for the control of level, flow, temperature, and pressure. The concept of a control loop is introduced and each of the loop’s components- sensor, controller and final element- are examined. Design, documentation, operation, performance tuning and troubleshooting of single loop systems is discussed. Prerequisite(s): MET 130, PHY 150. (TBA)

MET 220  Advanced PLCs (ControlLogix or S7)  4
This course covers advanced principles and applications of programmable logic controllers (PLCs) and familiarizes them with a more advanced PLC family than that used in Introduction to PLCs. The student has the option of working with the Rockwell/Allen-Bradley ControlLogix system or the Siemens S7 system. The student should discuss the selection with his or her advisor. The course begins with an orientation to the new platform by reviewing the subjects covered in Introduction to PLCs. Among the advanced topics are PLC real time considerations, various levels of PLC networking, alternate programming languages for PLCs, international standards applied to PLCs, integration of logic and motion control in PLCs, integration of process control in PLCs, advanced human/ machine interface (HMI) for PLCs, supervisory control and data acquisition (SCADA) with PLCs, alarm management, batch control, power failure strategies, and process safety. Prerequisite: MET 140. Corequisites: MET 200, MET 210. (TBA)

All = Fall, Winter, Spring
MET 230 Integrated Manufacturing Systems 3
This course guides the student through the processes of interfacing and integrating manufacturing components and unit operations into useful systems. The student will work with conveyors, robots, PLCs, workstations, a CNC machine, and a bar code reader to create a pallet transfer system, a flexible manufacturing work cell, a robot-based inventory storage and retrieval system and a barcode pallet tracking system. System integration will be accomplished using digital I/O, ASCII RS-232 and RS-485 serial communications, and TCP/IP Ethernet networking. The course includes working with a Manufacturing Execution System (MES) and an Enterprise Resource Planning System (ERP) to implement Computer Integrated Manufacturing (CIM). The instructor will also assign integration and troubleshooting tasks to the student to be completed independently or with a team mate. Prerequisite(s): MET 200, MET 220, NET 125.

(TBA)

MET 240 Mechatronics Application Project 4
This course provides a capstone experience for the AAS Degree in Mechatronics Engineering Technology by requiring that the student, together with a team mate(s), apply skills and knowledge from each of the program areas to an independent mechatronics project related to consumer goods packaging. The student will develop and implement a project plan approved by the instructor that will demonstrate the ability to integrate the skills and knowledge obtained over the previous three (3) semesters of study. The student will work with actual industrial equipment and machinery in a realistic application. This course will broaden the student’s knowledge with respect to technology suppliers, equipment and applications. It is strongly suggested that the student and instructor begin planning for this course during the semester prior to the semester in which the course is completed. Prerequisite(s): MET 150, MET 200, MET 210, MET 220.

MEDICAL LABORATORY TECHNOLOGY Credit Hours

MLT 120 Basic Immunology 2(Lab)
For the clinical laboratory student, this course will introduce the fundamental principles of immunology. Topics to be covered are: the immune response, antigen-antibody reactions, the antibody response, the lymphoid system, genetic control of immunity, hypersensitivity, and applied clinical immunological procedures. Prerequisites: COM 061; high school biology and chemistry within the past 5 years or BIO 150 and CHE 120.

(Winter)

MLT 210 Clinical Laboratory Techniques 3(Lab)
The purpose of this course is to prepare medical laboratory technician students for transition to clinical experiences in the fifth and sixth terms of the program. In this course, basic knowledge and dexterity for routine laboratory tests in the various hospital laboratory departments will be stressed. The course will especially stress hematology, coagulation, and clinical chemistry. Prerequisite: MLT 120.

(Fall)

MLT 220 Clinical Hematology 4(Lab)
Within this clinical laboratory-based course, the student will be actively engaged in rotations and lectures in hematology. Emphasis will be placed on all the hematologic cell series, anemias, leukemias, and other blood dyscrasias. Hematology clinical laboratory procedures will be more fully covered to allow the student to function in a clinical hematology laboratory on an entry level of proficiency. Prerequisite: MLT 210. Corequisite: MLT 221, MLT 222, MLT 230, MLT 231, MLT 232, MLT 233.

(Winter)

MLT 221 Clinical Chemistry 4(Lab)
Within this clinical laboratory-based course, the student will be actively engaged in rotations and lectures in clinical chemistry. All routine chemistry testing will be stressed. Automation will be covered with each test where it applies. Prerequisites: MLT 210. Corequisites: MLT 220, MLT 222, MLT 230, MLT 231, MLT 232, MLT 233.

(Winter)

MLT 222 Clinical Urinalysis 1(Lab)
Within this clinical laboratory-based course, the student will be actively engaged in rotations and lectures in urinalysis. The structure and function of the kidney will be covered in detail. Urinalysis chemical and physical laboratory testing will be stressed. The student will also be exposed to test correlation as to pathological kidney states. Prerequisite: MLT 210. Corequisites: MLT 220, MLT 221, MLT 230, MLT 231, MLT 232, MLT 233.

(Winter)

MLT 230 Clinical Blood Banking & Immunology 4(Lab)
Within this clinical laboratory-based course, the student will be actively engaged in rotations and lectures in blood banking. Emphasis will be placed on the blood groups and identifying atypical antibodies as pertaining to blood transfusions. Prerequisite: MLT 210. Corequisites: MLT 220, MLT 221, MLT 222, MLT 231, MLT 232, MLT 233.

(Spring)

MLT 231 Clinical Microbiology 4(Lab)
Within this clinical laboratory-based course, the student will be actively engaged in rotations and lectures in clinical microbiology, including parasitology. Emphasis will be placed on microbial organism identification. Prerequisite: MLT 210. Corequisites: MLT 220, MLT 221, MLT 222, MLT 230, MLT 232, MLT 233.

(Spring)

MLT 232 Clinical Coagulation 1(Lab)
Within this clinical laboratory-based course, the student will be actively engaged in rotations and lectures in clinical coagulation. The basis of hemostasis will be stressed. Testing for factor deficiencies will be covered in detail. Pathological factor deficiencies will also be covered. Prerequisite: MLT 210. Corequisites: MLT 220, MLT 221, MLT 222, MLT 230, MLT 232, MLT 233.

(Spring)

MLT 233 Clinical Serology 1(Lab)
Within this clinical laboratory-based course, the student will be actively engaged in rotations and lectures in serology. The principles and correlations of serological procedures will be stressed. Emphasis will be placed on syphilis testing, pregnancy testing, febrile agglutination, infectious mononucleosis serology testing and enzyme immunoassay techniques. Prerequisite: MLT 210. Corequisites: MLT 220, MLT 221, MLT 222, MLT 230, MLT 232, MLT 233.

(Spring)

MLT 290 Cooperative Education I (All) Varies
MLT 291 Cooperative Education II (All) Varies
MLT 299 Seminar (TBA) Varies

All = Fall, Winter, Spring

107
NSC 200  Nanofabrication Seminar  1
This is an orientation course for all students considering the Nanoscience technology emphasis in Laboratory Science and the capstone semester at the Nanofabrication Laboratory at Penn State University. The primary aim of this course is to prepare students for the rigors of this very intense training sequence. An introduction/orientation to the program educational requirements and details of career opportunities as technicians/technologists within the rapidly expanding field of nanofabrication will be covered. Associated topics will be researched. Prerequisites: ELT 100, MAT 165, MAT 210, COM 121, COM 141, IFT 110, BIO 150, CHE 150, PHY 150 or a faculty recommendation. Corequisite: ELT 200.

NSC 211  Materials, Safety & Equipment Overview for Nanofabrication  3(Lab)
This course provides an overview of basic Nanofabrication processing equipment and materials handling procedures. The focus is on procedural, safety, environment, and health issues in equipment operation and materials handling. Topics to be covered will include: cleanrooms operation, safety and health issues; vacuum pump systems operation, environmental safety, and health issues (covering direct drive mechanical roots blowers, turbomolecular, and dry mechanical systems); furnace operation, safety, environmental, and health issues (covering horizontal, vertical, rapid thermal annealing tools); chemical vapor deposition system operation, safety, environmental, and health issues (covering microwave and RF power supplies and tuners, heating and cooling units, vacuum gauges, valves, and process controllers); and vacuum deposition/etching system operation, safety, environmental, and health issues (covering microwave and RF power supplies and tuners, heating and cooling units, vacuum gauges, valves, and process controllers). Specific materials handling issues will include DI water, solvents, cleaners, ion implantation sources, diffusion sources, photoresists, developers, metals, dielectrics, and toxic, flammable, corrosive and high purity gases as well as packaging materials. Prerequisites: BIO 150, CHE 150, COM 121, COM 141, ELT 100, ELT 200, ITF 110, MAT 165, MAT 210 and NSC 200.

NSC 212  Basic Nanofabrication Process  3(Lab)
This course provides an overview of basic processing steps in Nanofabrication. The majority of the course details a step-by-step description of the equipment and processes needed to fabricate devices and structures. Processing flow will be examined for structures such as microelectromechanical (MEM) devices, biomedical “lab-on-a-chip” structures, display devices, and microelectronic devices including diode, transistor, and full CMOS structures. Students will learn the similarities and differences in both equipment and process flow for each configuration by undertaking “hands-on” processing. Prerequisite: NSC 211.

NSC 213  Thin Films in Nanofabrication  3(Lab)
This course covers thin film deposition and etching practices in Nanofabrication. The deposition techniques to be included in the first part of the course will include atmosphere, low pressure, and plasma enhanced chemical vapor deposition and sputtering, thermal evaporation, and beam evaporation physical vapor deposition. Materials to be considered will include dielectrics (nitride, oxide), polyisilicon (doped and undoped), metals (aluminum, tungsten, copper), adhesion promoters and diffusion barriers. The second part of the course will focus on etching processes and will emphasize reactive ion etching (single wafer, batch), high-ion-density reactors, ion beam etching and wet chemical etching. Students will receive hands-on experience in depositing and etching dielectric, semiconductor, and metal materials using state-of-the-art tools and practicing many of the steps critical to Nanofabrication of semiconductor devices including microelectronics, MEMs devices, display structures, and structures used in the biotechnology fields. Prerequisite: NSC 212.

NSC 214  Lithography for Nanofabrication  3(Lab)
This course covers all aspects of lithography from design and mask fabrication to pattern transfer and inspection. The course is divided into three major sections. The first section describes the lithographic process from substrate preparation to exposure. Most of the emphasis will be on understanding the nature and behavior of photoresist materials. The second section examines the process from development through inspection (both before and after pattern transfer). This section will introduce optical masks, aligners, steppers and scanners. In addition, critical dimension (CD) control and profile control of photoresists will be investigated. The last section will discuss advanced optical lithographic techniques such as phase shifting masks and illumination schemes as well as e-beam, e-ray, EUV, and ion beam lithography. Prerequisite: NSC 213.

NSC 215  Materials Modification in Nanofabrication  3(Lab)
This course will cover in detail the processing steps used in modifying material properties in Nanofabrication. Included will be growth and annealing processes utilizing horizontal and vertical furnaces as well as rapid thermal annealing. The impact of thermal processing on defects, gettering, impurities and overall electrical, mechanical, optical, electrical and chemical properties will be studied. The student will grow and measure gate and field oxides, implant and activate source and drain regions, and evaluate thermal budget requirements using state-of-the-art tools. Included also will be other modification technologies such as ion implantation, diffusion and surface preparation and treatment. Substrate preparation processing such as slicing, etching, polishing and epitaxial growth will be covered. Prerequisite: NSC 214.

NSC 216  Characterization, Packaging and Testing of Nanofabricated Structures  3(Lab)
This course examines a variety of techniques and measurements essential for controlling device fabrication and final packaging. Monitoring techniques such as residual gas analysis (RGA), optical emission spectroscopy (OES) and end point detection will be discussed. Characterization techniques such as: surface profilometry, advanced optical microscopy, optical thin film measurements on device structures for yield analysis and process control will also be stressed. These will include breakdown measurements, junction testing, and CV and IV tests and simple transistor characterization. In addition, we will examine mechanical as well as electrical characteristics of nanostructures for biological/biomedical applications. The students will perform DNA analysis by learning and performing the polymer chain reaction for DNA replication. They will also study and manufacture microfluidic channels for biological analysis. An extensive overview of biology will be given with emphasis on biocompatible materials. The student will also learn about the manufacturing issues involved in subjects such as interconnects, isolation, and final device assembly. Aluminum, refractory metals and copper deposition techniques and characterization will be discussed in detail along with topics such as diffusion barriers, contact resistance, electromigration, corrosion, stress effects, and adhesion. The importance of planarization techniques such as deposition/etchback and chemical/mechanical polishing will be emphasized. Lastly, packaging procedures such as die separation, inspection bonding, sealing and final test for both conventional ICs and novel MEM and biomedical devices will be examined. Prerequisites: NSC 215.
NET 100 Fundamentals of Networking 3
This course will introduce students to basic networking concepts and terminology of networking computing, including LANs and WANs. An introduction to data communications will also be addressed. Students will gain an understanding of hardware, software, cabling, and topologies common in networking. Prerequisite: IFT 100. (Winter)

NET 105 Installation & Maintenance of PC Operating Systems 3
This course will give the student hands-on experience with all major personal computer operating systems. The student will learn to use the desktop and interface components for all versions of Windows workstation operating systems, Linux, and Mac OS. The student will also install, configure, optimize and troubleshoot these operating systems. Installation of hardware drivers, using utilities to support hard drives, and connecting to networks and the Internet will also be addressed. Because service technicians find that being well-versed in technical aspects is not enough in today’s job market, this course will also address other responsibilities of PC technicians. After completion of the course, the student will be prepared for CompTIA’s A+ Operating System Technologies certification exam. Prerequisite: IFT 100 and IFT 110. (Winter)

NET 120 Server Administration (Windows) 3
This course will provide the student with the knowledge and skills necessary to perform Windows server pre- and post-installation, along with the skills necessary to perform day to day maintenance on Windows servers. At the completion of the course, the student should be able to create and administer user and group accounts, troubleshoot login problems, setup and administer permissions for files and folders, set and administer printers and administer the Windows server and workstations OS in real world situation. The student should be prepared after completion of the class with additional study to take the Windows Server MCSE exam. Prerequisite: NET 100, NET 105, COM 121. (Fall)

NET 125 Installation and Maintenance of PC Hardware 3
This course will give the student hands-on experience with every component of the personal computer. The student will install such devices as hard drives, memory, CPU chips, printers, expansion boards, storage devices, network interface cards, modems and multimedia devices. In addition, the student will learn to diagnose, troubleshoot and repair hardware devices. Because service technicians find that being well-versed in technical aspects is not enough in today’s job market, this course will also address other responsibilities of PC technicians. After completion of the course, the student will be prepared for a CompTIA’s A+ Core Hardware certification exam. Prerequisite: IFT 100, IFT 110. (Spring)

NET 200 Network Technologies & Troubleshooting 3
This course will provide the foundation for both concepts and technology of communications and networking needed to pursue advanced data communication courses or advanced networking courses. Projects will be provided to help students solidify and apply their knowledge. Prerequisite: NET 110, NET 120. (Winter)

NET 220 Advanced Server Administration (Windows) 3
This course will enhance the students’ network management and monitoring skills by giving them a more in-depth understanding of network administration responsibilities including the use of advanced administration skills. Students will learn tools to measure system performance. They will also learn how to configure a Windows server to work in a mixed platform with a NetWare server. Network security and troubleshooting will also be addressed. Prerequisite: NET 120. (Winter)

NET 230 TCP/IP 3
This course is intended as a starting point to help broaden the students’ understanding of internet working and (TCP/IP). It is designed to give the student a reasonable working knowledge of TCP/IP architecture, subnetting, addressing, and routing. Prerequisite: NET 200. (Spring)

NET 240 Designing Systems for Client/Server Architecture 3
This course will provide an introduction to client/server design architecture. It will teach the student to evaluate the benefits of client/server computer vs. traditional data processing, to adapt software design approaches to client server model, and to management and control client/server application development projects. This course will also provide a comprehensive, platform neutral introduction to client/server computing. The student will be introduced to client/server development, from the architecture and application design to system performance issues and project support. This class will examine what organizations are doing today to provide more flexible environments and reduce present and future integration problems. Prerequisite: NET 200. (Spring)

NUR 111 Transition to Nursing 2
This course enables licensed practical nurses and others who meet the criteria for advanced placement to enter the Nursing Program with advanced standing. Concepts explored include: professional nursing and nursing roles, nursing process, organizing assessment data using functional health patterns, communication, client and life dimensions. Emphasis is placed on beginning skills in therapeutic communication techniques, and on the role change from LPN to RN. Prerequisites: All courses stated in the Selective Admissions Procedures in the current Reading Area Community College Student Catalog, COM 091: Advanced Reading (or appropriate score on placement tests), current CPR certification for the Professional Rescuer or Healthcare Provider, 2.5 or better GPA for Reading Area Community College work, and special permission of the Nursing Program Admissions Committee.

NUR 115 R Nursing Seminar 1
This course is designed to assist students to be successful when re-entering nursing courses NUR 130 Nursing II or NUR 140 Nursing III. The focus is on theoretical content, laboratory and clinical skills. In addition the student will examine issues which are critical to their success. Prerequisite: Special permission from the AD Nursing Program Admissions committee. (Summer)
This course is designed to assist students to be successful when re-entering nursing courses NUR 220 Nursing IV, NUR 230 NURSING V, or NUR 240 Nursing VI. The focus is on theoretical content, laboratory and clinical skills. In addition the student will examine issues which are critical to their success. Prerequisite: Special permission from the AD Nursing Program Admissions committee. (Summer)

This course introduces foundational nursing concepts including: professional nursing and nursing roles, nursing process, communication, client and life processes, healthy function dysfunction, and potential dysfunction, and clinical nursing therapeutics. Emphasis is placed on developing beginning skills in communication, nursing assessment and fundamental nursing skills in the campus laboratory. Clinical experience introduces the student to nursing practice with adult clients in long term care facilities. Prerequisites: All courses stated in Selective Admissions Procedures, page 15; COM 061; current C.P.R. certification for professionals. [Fee] (Fall)

Basic nursing concepts introduced in Nursing I are further developed. The nursing student will perform selected nursing techniques and develop skills in identifying and utilizing communication techniques that facilitate communication with clients. The focus of theory shifts from use of the nursing process to meet basic needs to managing the care of clients (adults and children) who require surgical or medical intervention for selected pathophysiological conditions: gastrointestinal, sensory and integumentary. During this course, clinical experiences are provided in the acute care and community-based settings. Prerequisites: BIO 250 (within last 7 years); COM 121; NUR 120; all prerequisites require a grade of "C" or higher; current C.P.R. certification for professionals. [Fee] (Winter)

The concept of wellness is continued with an emphasis on maternal-child nursing theory. This includes uncomplicated pregnancy, labor, delivery, postpartum and newborn nursing care. The developmental changes of the client and the family are introduced. The nursing process is applied to the care of clients of any age with selected pathophysiologic conditions: reproductive, urinary, endocrine, and cardio-peripheral-vascular. Concurrent clinical experience is in acute care and community-based settings. Prerequisite: BIO 255 (within last 7 years); NUR 130; all prerequisites require a grade of "C" or higher; current C.P.R. certification for professionals. [Fee] (Spring)

The focus of this course is on application of the nursing process to chronically ill clients of any age with selected pathophysiologic conditions: musculoskeletal, respiratory and hematologic, and with mental illness. More complex nursing skills are developed in the medical-surgical and rehabilitation areas. Concurrent clinical experience is in acute care, rehabilitation, and psychiatric care settings. Prerequisites: BIO 280 or CHE 150; NUR 140; all prerequisites require a grade of "C" or higher; current C.P.R. certification for professionals. [Fee] (Fall)

Acute, critically ill client care situations are taught. Content and practice are based on knowledge and skills acquired in all previous nursing courses. These skills are applied in rapidly changing situations requiring swift nursing action. Students use critical thinking, communications, and nursing skills to maintain a professional and caring environment for critically ill clients of all ages. Concurrent clinical experience is in acute care settings in critical care, coronary care, emergency room and obstetrics. Prerequisites: NUR 220 (with a "C" or higher); current C.P.R. certification for professionals. [Fee] (Winter)

The student is prepared for role transition to graduate nurse through expanded clinical experience in varied health care settings. Integration of theory and clinical skills allow for organization of care for a group of clients using the nursing process. Concepts, trends, and professional practice issues which affect health care delivery are analyzed. Prerequisites: NUR 230 (with a "C" or higher); current C.P.R. certification for professionals. [Fee] (Spring)

OFFICE TECHNOLOGY

OFT 100 Personal Keyboarding
3
Designed to teach keyboarding skills to students who are not office technology majors. This course is for students with no keyboarding background or for students who wish to brush up on previous skills. Emphasizes keyboarding skills and techniques and basic keyboarding applications such as business letters, tables, memos and reports. Personal Keyboarding cannot be substituted for OFT 110. Prerequisite: COM 021. (All)

OFT 110 Keyboarding I
3
Designed for students with no keyboarding background or for students who wish to brush up on previous skills. Emphasizes keyboarding skills and techniques and basic keyboarding applications such as business letters, tables, memos and reports. Prerequisite: COM 021 (or concurrent enrollment). For Office Technology Students ONLY. (Fall)

OFT 111 Keyboarding II
3
Emphasis on increasing speed and accuracy. Includes advanced problems in business letters, tables with special features, reports, memorandums, and integrated office projects in a wide variety of fields. Prerequisite: OFT 110 (recommended keyboarding speed of at least 35 wpm). (Winter)

OFT 112 Keyboarding III
3
Includes integrated and specialized keyboarding projects for the executive, legal, medical and word processing fields including instruction on the advanced features of Microsoft Word. Prerequisite: OFT 111 (or recommended keyboarding speed of at least 45 wpm). (Spring)

OFT 120 Machine Dictation & Transcription
3
Designed to familiarize the student with the important role of the originator and the transcriptionist in the preparation of office communications and to provide experience in developing effective machine dictation and transcription techniques. Emphasis will be placed on business English skills, dictation and transcription of mailable copy, and appropriate application of secretarial reference manuals. Prerequisites: BUS 105; OFT 111. Strongly recommended: BUS 106 or concurrent enrollment. (Spring)

OFT 210 Speedwriting I
3
An introduction to the principles and theory of Speedwriting. Emphasis will be placed on the mastery of brief forms,
development of phrasing, and reading and writing of material. Dictation is given on familiar materials, and transcription techniques are introduced. Prerequisite: OFT 110 or previous keyboarding experience. (Winter)

OFT 211 Speedwriting II 3
A brief review of speedwriting theory and the building of a broad basic speedwriting vocabulary. Development of transcription techniques necessary for the production of mailable letters. Dictation at progressively increasing rates of speed on previewed and new material. Prerequisite: OFT 210 (recommended speedwriting speed of at least 50 wpm). (Spring)

OFT 212 Office Procedures 3
Introduction to the responsibilities and the opportunities of the secretarial position with a strong emphasis on the administrative aspects of secretarial work. Includes telephone communication, reprographics, records management, mailing operations, time management, and decision-making techniques. Prerequisite: OFT 112. Strongly recommended: BUS 106. (Fall)

OFT 213 Word Processing I 3
The student will receive instruction and hands-on experience using word processing software and the Internet on microcomputers. Proofreading skills are reinforced in this course. Prerequisite: OFT 112. (Fall)

OFT 214 Word Processing II 3
The student will receive instruction and hands-on experience using word processing, spreadsheet, database and presentation software as well as the integration of these packages. Prerequisite: OFT 213. (Winter)

OFT 220 Executive Transcription 3
Designed to prepare the student for effective machine transcription of a wide variety of documents. Emphasis is placed on production of sustained mailable copy using a cassette transcriber as well as spelling which will strengthen transcription skills. Prerequisites: OFT 120; OFT 213. (Winter)

OFT 221 Executive Office Procedures 3
Through the use of simulated office projects, students will apply the principles of office procedures to the executive office environment. Emphasis on attitude as it applies to success in the office environment is an important part of this course. Prerequisites: OFT 212; OFT 214; OFT 220. (Spring)

OFT 230 Legal Terminology & Transcription 3
Development of familiarity with legal terminology emphasizing definitions, spelling, and machine transcription. Legal correspondence and documents will be transcribed. Prerequisite: OFT 120. (Fall)

OFT 231 Advanced Legal Transcription 3
Machine transcription of legal correspondence and documents at employable production rates as well as emphasis on spelling legal terminology which will strengthen transcription skills. Prerequisites: OFT 230 and OFT 213. (Winter)

OFT 232 Legal Office Procedures 3
Through the use of simulated office projects, students will apply the principles of office procedures to the legal office environment. Emphasis on attitude as it applies to success in the office environment is an important part of this course. Prerequisite: OFT 212; OFT 214; OFT 290. (Spring)

OFT 240 Medical Terminology & Transcription 3
Development of familiarity with medical terminology emphasizing definitions, spelling, and machine transcription. Medical correspondence and reports will be transcribed. Prerequisite: OFT 120. (Fall)

OFT 241 Advanced Medical Transcription 3
Machine transcription of medical correspondence and reports at employable production rates as well as an emphasis on spelling medical terminology which will strengthen transcription skills. Prerequisites: OFT 213; OFT 240. (Winter)

OFT 242 Medical Office Procedures 3
Through the use of simulated office projects, students will apply the principles of office procedures to the medical office environment. Emphasis on attitude as it applies to success in the office environment is an important part of this course. Prerequisites: OFT 212; OFT 214; OFT 240. (Winter)

OFT 244 Word Processing Procedures 3
Designed to prepare the student for effective machine transcription of a wide variety of documents. Emphasis is placed on production of sustained mailable copy using a cassette transcriber as well as spelling skills which will strengthen transcription skills. Prerequisites: OFT 120; OFT 213. (Winter)

OFT 250 Word Processing Transcription 3
Through the use of simulated word processing projects, students will apply the principles of office procedures to the word processing environment. Emphasis on attitude as it applies to success in the office environment is an important part of this course. Prerequisites: OFT 212; OFT 214; OFT 250. (Spring)

OFT 290 Cooperative Education I (All) Varies
OFT 291 Cooperative Education II (All) Varies
OFT 299 Seminar (All) varies

ORIENTATION

ORI 102 College Success Strategies 2
The CSS course is designed to be a guide to higher education at Reading Area Community College (RACC) It affords students the opportunity to evaluate their goals and commitment to higher education early in their undergraduate experience. Emphasis is placed on the student's academic and personal development in the college environment. Prerequisite: COM 009 or permission of instructor. (All)

ORI 101 College Success Strategies (CSS) for ESL Students 2
The CSS course is designed to meet the special needs of ESL students as they enter occupational or transfer programs at Reading Area Community College. It affords them the opportunity to evaluate their goals and commitment to higher education early in their undergraduate experience. Emphasis is placed on the students' academic and personal development in a multi-cultural and multi-lingual college environment. Corequisite: COM 013 or placement by assessment.

ORI 299 Seminar (TBA) Varies

All = Fall, Winter, Spring
### Physics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 120</td>
<td>Principles of Physics</td>
<td>4 (Lab)</td>
<td>Courses in the technologies including Nanoscience. The course provides the student with an integrated view of how basic concepts of physics are applied to mechanical, fluid, electrical, and thermal systems. The course uses everyday examples to show how these concepts are applied. It stresses accurate measurements, and the recording and manipulation of data. Prerequisite: MAT 030 (with a “C” or better) or placement by assessment; COM 061. (Fall)</td>
<td></td>
</tr>
<tr>
<td>PHY 150</td>
<td>Applied Physics</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 240</td>
<td>Physics I</td>
<td>4 (Lab)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 245</td>
<td>Physics II</td>
<td>4 (Lab)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 290</td>
<td>Cooperative Education I</td>
<td>(All)</td>
<td>Prerequisite: 27 credits earned in student’s curriculum with a 2.0 QPA.</td>
<td></td>
</tr>
<tr>
<td>PHY 291</td>
<td>Cooperative Education II</td>
<td>(All)</td>
<td>Prerequisite: 27 credits earned in student’s curriculum with a 2.0 QPA.</td>
<td></td>
</tr>
<tr>
<td>PHY 299</td>
<td>Seminar</td>
<td>(TBA)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Practical Nursing

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNP 110</td>
<td>Body Structure &amp; Function</td>
<td>3</td>
<td>Completion of selective admissions procedure.</td>
<td>(Fall)</td>
</tr>
<tr>
<td>PNP 115</td>
<td>Medical/Surgical Nursing I for the Practical Nurse</td>
<td>1</td>
<td></td>
<td>(Fall)</td>
</tr>
<tr>
<td>PNP 120</td>
<td>Nursing Skills I for the Practical Nurse</td>
<td>2</td>
<td></td>
<td>(Fall)</td>
</tr>
<tr>
<td>PNP 122</td>
<td>Nursing Skills II for the Practical Nurse</td>
<td>3</td>
<td></td>
<td>(Fall)</td>
</tr>
<tr>
<td>PNP 125</td>
<td>Contemporary Practical Nursing</td>
<td>1</td>
<td></td>
<td>(Fall)</td>
</tr>
<tr>
<td>PNP 130</td>
<td>Nutrition for Practical Nursing</td>
<td>1</td>
<td></td>
<td>(Fall)</td>
</tr>
</tbody>
</table>

### Political Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 130</td>
<td>American Government</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POS 135</td>
<td>State &amp; Local Government</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All = Fall, Winter, Spring
PNP 140  Pharmacology for Practical Nursing  3
Concurrent clinical and theory components of this course prepare the practical nursing student to provide safe, competent practical nursing care to clients receiving drug therapy. Theory segment includes dose calculation, drug classifications, usage, reference sources and legal requirements. Clinical component provides class demonstration, laboratory simulation and clinical experience in drug administration. Practical nursing students will apply this information (within the scope of practical nursing) to meet the needs of selected clients. (Winter)

PNP 145  Medical-Surgical Nursing II for the Practical Nurse  8
This course deals with adults with more complex nursing care needs. The course addresses common health alterations and health promotion measures. Conditions related to the reproductive, integumentary, musculoskeletal and respiratory systems are included. General gerontological considerations are included. (Winter)

PNP 150  Growth & Development for Practical Nursing  1
This course examines human dynamics through the life cycle. Growth and development from birth to adolescence are stressed and practical nursing students explore community resources and family-centered health care. (Spring)

PNP 155  Maternity Care for Practical Nursing  3
Nursing care of the pregnant woman, new mother and infant are discussed, including physical and emotional factors. Normal fetal growth and development and community resources are included. Practical nursing students apply theory in the clinical area during this course by utilizing the nursing process (within the scope of practical nursing) to meet the needs of selected clients. (Spring)

PNP 160  Pediatric Care for Practical Nursing  3
This course includes concurrent theory and clinical practice related to nursing care of children between infancy and late adolescence. Health promotion, alterations in health, treatment of illnesses, rehabilitation, nutrition, and pharmacology are stressed. (Spring)

PNP 165  Medical-Surgical Nursing III for the Practical Nurse  4
This course deals with adults with more complex nursing care needs, including common health alterations and health promotion measures. Problems related to the cardiovascular and digestive systems are included. Relevant nutrition, pharmacologic and gerontologic considerations are also discussed. Practical nursing students apply theory in the clinical area during this course by utilizing the nursing process (within the scope of practical nursing) to meet the needs of selected clients. (Spring)

PNP 170  Medical-Surgical Nursing IV for the Practical Nurse  7
This course deals with adults with more complex nursing care needs, including common health alterations and health promotion measures. Disorders related to the endocrine, urinary, nervous and sensory systems, including alterations in function in the aged client are included. Practical nursing students apply theory in the clinical area during this course by utilizing the nursing process (within the scope of practical nursing) to meet the needs of selected clients. (Summer)

PNP 175  Contemporary Practical Nursing II  1
This course emphasizes practical nursing organizations, licensure and current trends in the care of clients. Practical nursing students practice completing job applications and submitting resumes. They also have the opportunity to practice interview techniques with role-playing activities. (Summer)

PNP 180  Intravenous Therapy for Practical Nursing  1
This course provides knowledge and skills to address practical nursing responsibilities, quality assurance, body structure and function, body fluids and electrolytes, pharmacology, IV equipment, infection control, universal precautions and IV therapy procedures within the scope of practice for the LPN. (Summer)

PNP 290  Cooperative Education I  (TBA)  Varies
PNP 291  Cooperative Education II  (TBA)  Varies
PNP 299  Seminar  (TBA)  Varies

PROGRAMMING

PRG 100  Introduction to Computer Programming  3
This course is for Information Technology majors. Fundamental concepts of computer programming logic are described. Input, output, and processing principles as well as data processing capabilities of the computer are explained. Industry accepted pseudocoding techniques are used for logic development. The programming language QBASIC is introduced to allow the student to apply the pseudocode logic to a program for visual output. Prerequisite: COM 061; MAT 030. (Fall/Winter)

PRG 110  AS/400 Computer Operations  3
This course is intended to teach the student comprehensive skills in the areas of AS/400 system/user interface, member-object-library relationships, use of CL commands, database concepts, and program development utilities. Prerequisite: COM 061 and MAT 020. (Fall)

PRG 120  COBOL  3
This course is designed to teach the basic language elements of the Common Business Oriented Language and to provide experience in communicating with a computer in this language. A problem-oriented approach is used. Problems are defined, the logic is created using flowchart or pseudocode, the programs are coded in COBOL, compiled, debugged, tested, and documented. Prerequisite: PRG 110, PRG 110. (Winter)

PRG 130  RPG IV  3
This course is intended to teach the student batch programming techniques using the problem-oriented language RPG IV. Prerequisite: PRG 110; PRG 220. (Winter)

PRG 140  Visual Basic  3
This course is designed to teach the basic language elements of the Visual Basic programming language and to provide experience in communicating with a computer in this language. Visual Basic will be used to create innovative and useful windows programs. Prerequisite: IFT 120, PRG 100. (Fall)

PRG 150  C++  3
This course is designed to teach the basic language elements of the C++ language and to provide experience in communicating with a computer using this language. Prerequisite: PRG 150.

PRG 160  JAVAScript  3
This course is designed to teach the beginning programmer how to develop Web applications using the JAVAScript programming language. You will learn how to make Web pages dynamic. The course will demonstrate how to use Script to add functionality to

All = Fall, Winter, Spring
web pages by initializing code within an HTML document. This course is designed for individuals with no knowledge of Hypertext Markup Language (HTML). Prerequisite: PRG 100.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100</td>
<td>Personal Development</td>
<td>3</td>
</tr>
<tr>
<td>PRG 200</td>
<td>Systems Analysis &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>PRG 230</td>
<td>Advanced RPG IV</td>
<td>3</td>
</tr>
<tr>
<td>PRG 240</td>
<td>Advanced Visual Basic</td>
<td>3</td>
</tr>
<tr>
<td>PRG 250</td>
<td>Advanced C++</td>
<td>3</td>
</tr>
<tr>
<td>PSY 100</td>
<td>Personal Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY 115</td>
<td>Modern Parenting</td>
<td>3</td>
</tr>
<tr>
<td>PSY 120</td>
<td>Interpersonal Relations &amp; Communications</td>
<td>3</td>
</tr>
<tr>
<td>PSY 130</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 131</td>
<td>General Psychology (Honors)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 208</td>
<td>Development Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>PSY 210</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 212</td>
<td>Adolescent Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 214</td>
<td>Psychology of Adulthood &amp; Aging</td>
<td>3</td>
</tr>
<tr>
<td>PSY 216</td>
<td>Psychology of the Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>PSY 220</td>
<td>Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>PSY 225</td>
<td>Behavior Modification</td>
<td>3</td>
</tr>
</tbody>
</table>

All = Fall, Winter, Spring
essence of this course. All phases of behavior modification programming as used in human service settings are addressed. Prerequisite: COM 121. (Spring)

**PSY 230 Abnormal Psychology** 3
This course will focus on the various forms of abnormal behaviors exhibited by individuals. It will inquire into the maladaptive behaviors and problems exhibited by people and current procedures used therapeutically to help people function more fully. Prerequisite: COM 121; PSY 130. (Fall/Winter)

**PSY 235 Social Psychology** 3
An analysis of the major thought systems, schools of psychology, and general theories of social psychology. Prerequisites: COM 121; PSY 130 and/or SOC 130. (Winter)

**PSY 240 Educational Psychology** 3
Educational Psychology is a course designed to give students an in-depth understanding of the processes by which individuals become addicted. Chemical substances and other physical and psychological addictions will be considered. The course will also examine the various contemporary clinical, mutual self-help, and primary prevention programs and approaches used to deal with problems of addiction. Prerequisite: COM 121. (Spring)

**PSY 255 Interpreting Lives: Rites of Passage, Personal History, & the Life Cycle (Honors)**
Same as ANT 255 & HIS 255. See ANT 255 for course description. (TBA)

**PSY 290 Cooperative Education I (All)** variables
Prerequisite: 27 credits earned in student’s curriculum with a 2.0 QPA.

**PSY 291 Cooperative Education II (All)** variables
Prerequisite: 27 credits earned in student’s curriculum with a 2.0 QPA.

**PSY 299 Seminar (TBA)** variables

**RESPIRATORY CARE** Credit Hours

**RES 150 Respiratory Care I** 5
The course is designed to develop a solid, practical knowledge of respiratory care. Lecture topics revolve around the etiology, manifestations and general management of obstructive lung diseases. Laboratory exercises include patient assessment, oxygen, humidity and aerosol administration, incentive spirometry and chest physical therapy. Prerequisite: Acceptance into the Respiratory Care Program by the Program Director and a cumulative grade point average of 2.5 or better for previous coursework. (Fall)

**RES 200 Cardiopulmonary Anatomy & Physiology** 1
The course is designed to reinforce and refine the student’s knowledge of the structure and function of the cardio-pulmonary system. The course also introduces the student to the physiology of gas exchange mechanisms and acid/base balance, include arterial blood gas interpretation. Prerequisite: acceptance into the Respiratory Program by the Program Director and a “C” or better in all first year coursework. (Fall)

**RES 212 Pharmacology** 2
This course includes the basic principles of pharmacology. Respiratory care drugs will be discussed. Prerequisite: Formal acceptance into the Respiratory Care AAS Program. (Fall)

**RES 227 Respiratory Care 2** 8
The course is designed to continue building a practical knowledge of respiratory care. Lecture topics include airway management, cardiopulmonary pathophysiology, a variety of non-invasive positive pressure modalities, arterial blood gas punctures, and advanced interpretation of Arterial Blood Gases (ABG). Laboratory exercises that coincide with the lecture material will be provided. Basic respiratory care modalities will be practiced in the hospital setting on non-critical patients. The student will practice the administration of medical gas therapy, humidity and aerosol therapy with pharmacological agents, chest physical therapy and incentive spirometry. Patient assessment mechanisms will be observed and the student will practice techniques. Prerequisite: RES 200, RES 201, and RES 150 with a grade of “C” or better. (Spring)

**RES 237 Respiratory Care 3** 6
The course is designed to develop a solid, practical knowledge of respiratory care within the critical care and diagnostics laboratory settings. Lecture topics include initiation, maintenance, and discontinuance of ventilatory support, non-invasive and invasive cardiopulmonary monitoring of the critically ill patient, chest x-ray interpretation and basics of pulmonary function testing. Laboratory exercises will be provided for these modalities. Prerequisite: RES 227 with a grade of “C” or better. (Summer)

**RES 255 Respiratory Care 4** 10
The course is designed to cover basic principles as well as more complex principles of critical respiratory care. Topics include pathophysiology of respiratory failure, graphic representation of flow, volume, and pressure on ventilatory support, newer modes of ventilation, invasive and non-invasive monitoring of the mechanically ventilated patient, nutrition of the mechanically ventilated patient, advanced patient assessment techniques, complete pulmonary function regimens, metabolic testing, cardiovascular stress testing, chest x-ray and electrocardiogram (ECG) interpretation, bronchoscopy, and long term 02 therapy, airway care and mechanical ventilation of critical respiratory care. Prerequisite: RES 237 with a grade of “C” or better. (Fall)

**RES 265 Respiratory Care 5** 12
The course is designed to develop a practical understanding of neonatal and pediatric respiratory care. Four major areas are covered during the course including general introductory concepts (including gestational cardiopulmonary development

All = Fall, Winter, Spring
and neonatal assessment), disease states, equipment and therapy, and patient outcomes. Other topics include assessment of respiratory related sleep disorders and a review to help prepare students for their National Board of Respiratory Care (NBRC) examinations.

(Spring)

RES 290  Cooperative Education I (TBA)  Varies
RES 291  Cooperative Education II (TBA)  Varies
RES 299  Seminar (TBA)  Varies

SOCIAL SCIENCE

TECHNOLOGY

SOCIOLOGY

SST 110  Information Technology  For the Social Sciences  3
This course partially meets the needs of the Social Science/Human Services students and practitioners in the area of information technology. By gaining exposure to and experiences with methods to access, evaluate, manipulate, and generate information in the Social Sciences disciplines, students will prepare for both success in further studies and increased productivity in the workplace. Course emphasis is on information sources and content that specifically apply to the social sciences and correlate to particular programs of study. Prerequisite: COM 051 and COM 061. (All)

SOC 130  Sociology  3
Basic theory, methodology, and knowledge from the field of sociology are the subjects of this course. Concepts such as group, role, norm, status, stratification, socialization, social control and deviance are discussed. Utilizing various cultures at various times as examples, the understanding of social change is promoted. Prerequisite: COM 051; COM 061. (All)

SOC 131  Sociology (Honors)  3
Basic theory, methodology, and knowledge from the field of sociology are the subjects of this course. Concepts such as group, role, norm, status, stratification, socialization, social control and deviance are discussed. Utilizing various cultures at various times as examples, the understanding of social change is promoted. Honors courses involve more in-depth study than non-honors courses and often involve exploratory learning, essay writing, collaborative activities and individualized research. Prerequisite: COM 051; COM 061. (All)

SOC 210  Social Problems  3
Basic social problems, their causes, controls, and effects upon society will be explored. The course also focuses upon the identification of current social issues and the role of social policy making in implementation of social problems and change. Prerequisite: COM 121. (Spring)

SOC 220  The Family  3
This course examines the family from the interdisciplinary viewpoint of sociology, psychology, and cultural anthropology with special emphasis on the American family. The course includes family and personality, universal patterns, cultural and social variations of family structures, problems in family life and reorganization of the family. Prerequisites: COM 121; PSY 130. (Winter)

SOC 225  Drugs & Alcohol in American Society  3
This course will concern itself with the use and abuse of alcohol and other drugs within American society. Specific information about different classifications of drugs, patterns of use and abuse, historical perspectives, laws, prevention and treatment will be presented. Prerequisite: COM 121. (Winter)

SOC 230  Sociology of Gender  3
This course focuses on the evidence gathered by social scientists in their attempts to resolve the nature-nurture dispute about the origin of the observed average male-female differences in preferences, abilities, and behavior. It also considers the strategies that are being employed or planned to eliminate sexist obstacles that hinder the full achievement of individual potentials. Prerequisite: COM 121; SOC 125 or SOC 130. (All)

SOC 290  Cooperative Education I  Varies
Prerequisite: 27 credits earned in student's curriculum with a 2.0 QPA. (Spring)

SOC 291  Cooperative Education II  Varies
Prerequisite: 27 credits earned in student's curriculum with a 2.0 QPA. (All)

SOC 299  Seminar (TBA)  Varies

All = Fall, Winter, Spring
SPANISH

SPA 101  Spanish I  3
This is an elementary course designed for beginning students of Spanish. It is taught with a communicative approach. Students develop listening, speaking, reading, and writing skills that help them to function in simple situations of immediate relevance in the present tense. Textbook and authentic (native Spanish) materials are used to introduce students to aspects of the cultures of Spanish-speaking countries. (This course is not open to fluent native speakers of Spanish.) Prerequisite: COM 061.
(Summer, Fall, Winter)

SPA 102  Spanish II  3
A continuation of Spanish I, Spanish II is an elementary course taught with a communicative approach. Students develop listening, speaking, reading, and writing skills that help them to function in simple situations of immediate relevance in the past and present. Textbook and authentic (native Spanish) materials are used to introduce students to aspects of the cultures of Spanish-speaking countries. (This course is not open to fluent native speakers of Spanish.) Prerequisite: SPA 101 or permission of instructor.
(All)

SPA 201  Spanish III  3
This is an intermediate course taught with a communicative approach. Students develop listening, speaking, reading, and writing skills that help them to function in situations of moderate complexity, to ask for and express opinions, and to make suggestions. At this level of Spanish, students prepare short guided writing assignments. Textbook and authentic (native Spanish) materials are used to familiarize students with aspects of the cultures of Spanish-speaking countries. Prerequisite: SPA 102 or permission of instructor.
(Spring)

SPA 202  Spanish IV  3
This is an intermediate course taught with a communicative approach. Students refine listening, speaking, reading, and writing skills that help them to function in situations of moderate complexity, to give supported opinions, and to express their ideas in speech and writing. Students review basic grammar skills and are introduced to more advanced grammar. At this level of Spanish, students prepare short guided writing assignments. Textbook and authentic (native Spanish) materials including audio, video, and literary texts are used to familiarize students with aspects of the cultures of Spanish-speaking countries. Prerequisite: SPA 201 or permission of instructor.
(Fall)

SPA 299  Seminar  (TBA)  varies
*Placement Guidelines for Foreign Language Classes
Students should select a class based on their prior experience; if they follow these guidelines in selecting a course, they will have the instructor’s permission to enter the level of language study indicated here.

Non-native speakers: Students with no experience or with one year of high school Spanish should take Spanish I. Spanish II is the appropriate choice for students with two or three years of high school Spanish. Students with four years of high school Spanish should take Spanish III or Spanish IV; Spanish III will offer greater opportunity for review. Students who have been away from language study for a number of years, had unsatisfactory grades in previous language courses, or attended classes where the primary focus was limited to conjugating verbs or translating sentences may select a lower course in consultation with their instructor or advisor. Please note that Spanish I and Spanish for Health Care Providers are designed for students with no experience in the language.

Native speakers of Spanish: Students who have had listening and/or speaking practice in the home setting but limited experience writing should take Spanish I. Students with intermediate high proficiency in Spanish, are confident writing and speaking about past, present, and future events, listing daily activities, asking questions, and describing themselves, family, and friends, should enroll in Spanish III or IV.

SPECIAL EDUCATION

SPE 100  Introduction to Special Education  3
This course is intended to give students a foundation of knowledge about the nature and needs of children with special needs and their families. It introduces the students to federal and state laws and regulations, including the Individuals with Disabilities Act (IDEA), classifications of disabilities, service options, and procedural safeguards. Current issues, research, and techniques for education students with disabilities are reviewed. Prerequisite: PSY 130.
(All)

SPE 205  Accommodating Children with Exceptionalities in the Classroom  3
This course introduces students to techniques for restructuring, adapting, and modifying educational environments to accommodate individual needs of children. Emphasis will be placed on techniques for accommodating children in the following areas: physical, behavioral, academic, communication, and social environments. Students will participate one hour weekly in a support of inclusive classroom environment. Prerequisites: COM 121; PSY 216; SPE 100.
(Fall)

SPE 210  The Paraeducator Professional  3
This course introduces students to the role and responsibilities of the paraeducator in relationship to the child, family and educators. This course addresses the knowledge and skill necessary for collaboration and positive communication with families, regular and special educators, and other professional staff within diverse learning environments. Topics addressed will include the following: law, health, safety, school systems, confidentiality, and professional standards. Prerequisites: COM 121; PSY 216; SPE 100.
(Winter)

SPE 215  Assistive Technology for Children with Exceptionalities  3
This course emphasizes the role of assistive technology as a related service in supporting children with exceptionalities in educational environments. It addresses legal requirements and funding issues. Students will identify national, state, and local resources and are given the opportunity for hands-on experiences with a wide array of technological devices. Prerequisites: SPE 100; COM 121.
(Fall)

SPE 220  Instructional Strategies for Children with Exceptionalities  3
This course introduces students to the process of developing, implementing, and monitoring individualized instructional strategies. Implementation of Individualized Educational Program (IEP) through goals and objectives is emphasized. Special attention will be given to developing strategies to work

All = Fall, Winter, Spring

117
with children who are culturally and linguistically diverse. Students will participate 2 hours weekly in a support or inclusive classroom. Prerequisites: COM 121; ECE 125 or EDU 130 or approved experience in an educational setting. (Winter)

SPE 250 Practicum in Special Education 6
As culmination to the Paraeducator in Special Education, students are assigned to work for 200 hours with a cooperating teacher who will assist them as they learn to apply theory and ideas gained through previous coursework. The class will meet once a week to evaluate activities, share experiences, and assess readiness to direct additional activities. Prerequisites: PSY 210; PSY 216; SPE 215; SPE 220. (A grade of “C” or better in each course is necessary.) (Spring)

WEB 100 Web Design I -HTML 3
This course teaches students how to plan and design a web site using fundamental web design principles. Students also learn several criteria to evaluate and analyze web page designs. The course focuses on creating sites that are user oriented and which assess information easily and quickly, the course teaches the use of basic and intermediate level HTML. Additional topics include web typography, effective use of color and graphics, page layout techniques, and publishing and maintaining web sites. Prerequisite: COM 061, MAT 020. (Fall)

WEB 115 Web Design II - Dreamweaver 3
This course teaches students to use the industry standard Web design application Macromedia Dreamweaver. Students will design and author a web site that is user-friendly, portable and easy to modify. Topics of this course include the use of tables for flexible layout and design, Cascading Style Sheets (CSS), selected JavaScript behaviors, the appropriate use of color, and effective navigation strategies. Students will learn to use Macromedia Fireworks to create and edit graphics appropriate for a Web site. At the completion of the course, students will have designed, created and tested a Web site. Prerequisite: WEB 100. (Winter)

WEB 200 E-Commerce 3
This course provides students with an understanding of the environment of Internet based selling of products and services. Students are introduced to the world of E-commerce through consideration of concepts including the role of the Internet as a component of a comprehensive marketing program, the development of an effective commercial website, and the use of the Internet as a payment mechanism. Prerequisites: BUS 100 and WEB 100. (Winter)

WEB 210 Web Design Layout 3
This course is designed to give students experience structuring and organizing a successful web site. Students will learn how to effectively plan a site by evaluating its audience, defining the site’s goals, examine competitors’ sites, and establish a relevant site structure and navigational layout. The student will identify usability and accessibility issues including those relating to the Americans with Disabilities Act (ADA) and apply strategies to meet those requirements. Students will also study issues of contemporary web design aesthetics including navigation, visual design, page layout, typography and color. After developing a paper-based prototype of a site, the student will use Macromedia Dreamweaver to build a web site based on these functional and layout best practices to enhance the user experience. The student will effectively use templates and Cascading Style Sheets (CSS) in the resulting web site. Prerequisite: WEB 115. (Spring)

WEB 215 Web Design Graphics 3
This course teaches students to use Macromedia Fireworks, a professional graphics application, for the creation and editing of web site graphics. Students learn the basic and advanced tools in Fireworks. Students also create vector and bitmap graphics. Techniques for efficiency such as using symbols and layers are practiced throughout the course. Students learn to create navigation bars, rollover buttons, image maps and pop-up menus for sophisticated, user-friendly web pages. Prerequisite: WEB 115. (Spring)

WEB 220 Flash Animation for the Web 3
This course teaches students to use Macromedia Flash to design and build animated and interactive web sites. Students will become familiar with the Flash environment and learn to use its various tools and panels. Students will use the Macromedia timeline, frame by frame animation and tweening in an object-oriented environment to build Flash animations. Students will also use the Flash scripting language, ActionScript, to add interactivity and functionality to Flash movies. By the end of the course, students will be able to import Flash movie files into traditional HTML web sites. Students will also create sites that are entirely designed with Flash with minimal amounts of HTML. Prerequisite: WEB 115. (Winter)

WEB 230 Web Databases 3
The student will learn how to use PHP to add functionality and interactivity to web sites. Students will also be able to manipulate online Access and MySQL databases with PHP scripting. Prerequisite: WEB 115. (Fall)

All = Fall, Winter, Spring
The Workforce and Economic Development/Community Education Division is a major and unique part of the offerings of Reading Area Community College. The College's Workforce and Economic Development/Community Education Division is committed to providing opportunities for adults to gain new knowledge and skills through formal and informal study. Workforce and Economic Development/Community Education registers approximately 30,000 area adults into classes annually. The Workforce and Economic Development/Community Education Division of Reading Area Community College is committed to:

- Providing education and training to meet job requirements or to facilitate achievement in certain occupations and professions.
- Providing customized training programs for local business and industry.
- Providing a wide variety of public safety programs for both the public and private sectors.
- Providing basic education programs in Adult Basic Education (ABE), English as a Second Language (ESL) and General Education Development (GED).
- Providing short unit classes, cultural events, informal discussion groups, films, exhibits, etc. as desired by the community.

Advisory committees comprised of community representatives assist the Workforce and Economic Development/Community Education Division in identifying education, training and cultural activities which are needed and desired by the community.

CONTINUING EDUCATION UNITS
Continuing Education Units (C.E.U.’s) are available for participating in Workforce and Economic Development/Community Education programs. C.E.U.’s are based on a standard of one unit per ten hours of participation in an organized continuing education experience. Upon successful completion of a course, each participant is presented with a certificate recognizing their accomplishment.

The C.E.U. is a nationally recognized unit of measure used to accumulate a standardized, permanent record of participation in credit-free continuing education programs conducted under responsible sponsorship, capable direction and qualified instruction.

CONFERENCES, SEMINARS AND WORKSHOPS
Workforce and Economic Development/Community Education offers regularly scheduled conferences, seminars, and workshops for professional gain or personal development. Our professional staff will work with you in designing conferences, seminars or workshops to meet your organization’s needs.

COURSES
Workforce and Economic Development/Community Education also offers business, manufacturing technology, information technology, health care, public service, public safety, technical and vocational courses to prepare workers for changing occupational demands. Regularly scheduled courses are held at one of our locations. As an option, customized programs may be held at your workplace - on company time or after working hours.

Schmidt Training and Technology Center
The Schmidt Training and Technology Center at Reading Area Community College is dedicated to providing a continuum of learning in advanced manufacturing skills, information technology, market knowledge, executive senior leadership, business performance and workforce readiness that meets the demands of the local and regional labor market. Manufacturing, IT and business professionals provide training using a hands-on learning approach.

The staff of Schmidt Training and Technology Center understands employers’ technology challenges, operating systems and business performance objectives. We understand that business and industry growth is increasingly centered on new IT applications in addition to advanced technical innovation. We know that successful employers must find new ways to produce and deliver products and services to customers who will purchase these goods at prices that will provide profit.

OFFERINGS
Schmidt Training and Technology Center provides customized senior leadership and employee training that adjusts to the unique and changing needs of business and industry employers.
Senior Leadership - Senior Leadership training helps senior executives establish the critical links between their people, customers and business profitability and realize the untapped potential within their organization.

Manufacturing Technology - Manufacturing Technology training provides knowledge and skills for dislocated workers who desire better-paying jobs in manufacturing and for local industry (incumbent workers) seeking to increase productivity, efficiencies, employee retention and growth. This includes technical knowledge and skills in industrial mechanics, industrial electricity, industrial electronics, automated manufacturing and mechatronics.

Reading Area Community College is a regional Advanced Manufacturing/Integrated Systems Technology partner recognized by the U.S. Department of Labor and Industry’s National Program for Integrated Systems Technology (NCIST). Manufacturing Technology classes use Advanced Manufacturing/Integrated Systems Technology equipment to provide industrial maintenance and manufacturing technology training.

Information Technology - Information Technology training provides knowledge and skills for dislocated workers and local industry (incumbent workers) who desire to gain current information technology knowledge, skills and certifications. We develop IT skill sets that will enable employers to creatively sustain competitiveness and provide better customer service. Our Microsoft, A+, Net+ and Security+ training prepares individuals to sit for certifications. Additional training in practical network cabling, wireless networking technologies and Voice Over Internet Protocol (VOIP) prepares individuals for many demand occupations in the fast-paced information technology field.

Workplace Readiness - Workplace Readiness training is designed to prepare entry-level employees to integrate into the business culture. This coursework will also prepare unemployed and underemployed citizens to gain the necessary skills for better paying jobs. Topics include work ethics, communications, teamwork, refresher math, workplace math and computer applications.

Workplace Literacy - Workplace Literacy provides the knowledge and skills necessary to perform tasks in the workplace. Today’s workers must possess good verbal and writing skills and perform basic mathematical functions. The foundation of the program is basic literacy, which is equivalent to a high school diploma. English as a Second Language is offered for non-native English speaking participants. Once the basic literacy level is achieved, participants will take coursework in communication and math skills, with an emphasis on workplace applications.

Occupational Programs

HEALTH CARE

Courses, workshops and seminars are provided to meet the educational needs of the health care community. Programs deal with such topics as current trends and issues, technological advances, clinical updates, federal and state regulations, safety issues, legal issues and ethical issues. Programs are varied and are provided for any individual employed in health care. Seminars are available on both a regular basis and as customized training for any organization upon request.

BANKING

This professional development program consists of a systematic progression through one or more levels of education. Courses are offered to prepare bank employees to meet the needs of their customers.

VOCATIONAL TECHNICAL

Evening classes in vocational technical education are held at Reading-Muhlenberg Career & Technology Center in the fall and winter. These hands-on classes are helpful in obtaining applied knowledge and skills in a variety of vocational and technical disciplines.

PUBLIC SAFETY

Courses, workshops and seminars are provided to meet the educational needs of individuals in the public safety sector. This includes fire, police, hazardous material and emergency medical services training for both career and volunteer personnel. In addition, training is provided for fire brigades and safety personnel in industry. Courses are available both on a regular basis and as customized training for any organization upon request.

AUCTIONEERING CERTIFICATION PROGRAM

In order to sit for the PA State Auctioneer Licensing Examination, an individual must either serve as a licensed auctioneer apprentice or successfully complete an approved course of study. In January 1991, the “Auctioneering Certification Program” was confirmed by the Pennsylvania Auction Board as such a course of study.

This program has been designed to provide in-depth knowledge of the techniques, procedures and principles of communication, appraisal, management, marketing and law necessary to pass the licensing exam. The ten-week program runs two times a year, every fall from September through December and every spring from April through June. Specific course schedules can be obtained from the Office of Workforce and Economic Development/Community Education.
CAREER PREPARATION
Career Programs is a division of the Office of Workforce and Economic Development/Community Education. Career Programs provides non-credit certificate training. The programs are designed to prepare adults for entry or re-entry into the job market.

Students must have their high school diploma or GED prior to admission. (The Nurse Aide Program does not require a GED or high school diploma prior to admission.) Students will be required to verify previous college coursework completed with an average of “C” or above or take a reading assessment test. Select programs require submission of PA Criminal History Report Information, a completed physical form and/or proof of valid health insurance.

Funding for the training may be available to individuals meeting the requirements established by the Berks County Employment and Training Office, the Office of Vocational Rehabilitation or through the Berks County Public Assistance Office. Additionally, prospective students may apply for the Workforce Advancement Grant for Education (WAGE) Program. Students can learn more about the WAGE grant by contacting the financial aid office.

Certificate programs offered through the Career Preparation program are: CNA Nurse Aide, Dental Assistant/Chairsides Assistant, Diagnostic Technician with Phlebotomy, Certified Home Health Aide, Medical Insurance & Billing Specialist, Medical Office Assistant, Medical Receptionists, Medical Secretary, Medical Transcription, Veterinary Assistant I & II, Administrative Assistant, Junior Accountant, Office Assistant with Computer Applications.

Educational Outreach Programs
21ST CENTURY COMMUNITY LEARNING CENTERS
The 21st Century Community Learning Centers Program (CCLC) is a federally-funded collaboration between RACC and the Reading School District. The program provides after-school and summer programming for over 900 at-risk elementary and middle school students at 11 local school and neighborhood churches.

The CCLC program provides homework tutoring, intensive Reading and Math instruction and/or remediation, and over 50 enrichment classes such as Karate, Drama, Introduction to Business, Ecology and Computer Exploration.

Students in the program enjoy educational field trips and a daily hot meal. Community agencies partner with the sites to provide additional cultural, social and recreational activities for the students and their families. Adult Education classes such as ESL, Spanish GED and Workforce Training, are offered to parents at no charge.

Enrichment Programs
SHORT UNIT PROGRAMS: “Moonlighting”
Short unit evening courses are offered in the fall, winter, and spring at Reading High School, Wilson High School, Exeter High School, Muhlenberg High School, Conrad Weiser High School, Hamburg Area High School and Governor Mifflin High School. Arts and crafts courses include painting, quilting, calligraphy, woodworking, and photography. Students learn typing, accounting, computer, and supervisory skills in the career development area. Assertiveness training, positive self image, and communication skills are included in the human development component. Aerobics, yoga, weight training and social dance are among the sports and physical fitness programs. Approximately 350 classes provide instruction for 3,500 students in the “Moonlighting” short unit program each year.

SATURDAY COLLEGE
Saturday College, an educational alternative to weekday and evening instruction, takes places every fall in October and November and every spring in April and May on six consecutive Saturdays at Reading Area Community College.

The four divisions of Saturday College are: Super Saturday Kids’ College, enrichment programs for students in grades 1 through 12; Early Childhood Programs for ages 3-6; Saturday Seminars for Adults, a variety of arts, crafts, health, fitness and language offerings and Saturday Short Unit Computer and Enrichment Programs, a core of six-week certificate courses designed to enhance skills and lead to professional advancement.

KIDS’ COLLEGE SUMMER STUDIES
Kids’ College Summer Studies runs for two weeks each year at the College. Enrichment courses in the arts, sciences and computers are offered for children in grades one through twelve. Community resources and outside facilities are utilized for field excursions.

Cultural Programs
Illustrated Lecture Series
The Illustrated Lecture Series presents the beauty and wonder of the world through the multi-media presentations of some of the world’s most talented filmmakers. The films related to geography, anthropology, and international life styles are your passport to adventure. The Series, initiated in 1914 by the Reading School District, is now sponsored by Reading Area Community College. The lectures are held in the auditorium of Reading Senior High School, 13th & Douglass Streets, Reading. Season tickets are available.

Meet The Artist
The “Meet the Artist” invitational series was initiated in 1978 to enhance the cultural atmosphere of the College for the students, to provide an opportunity for regional visual artists to exhibit their work, and for the general public to participate in the venture as viewers and appreciators. Efforts are made to
present solo or group exhibitions on a monthly basis (September through May). Receptions are planned for the public to meet the artist during each exhibit from 2-4 p.m. A "gallery talk" by the artist may be included at the reception or during the exhibition.

**Literacy Programs**

**Adult Basic Education (A.B.E.) Program**

Adult Basic Education classes offer basic reading and math instruction to adults functioning from a second grade level to those reading on an eighth-grade level. All materials used in these classes are adult-oriented and address pertinent daily skills. Classes are free.

**English for Speakers of Other Languages (E.S.L.) Program**

The English for Speakers of Other Languages program offers speaking, reading and writing skills to non-English speaking adults. Classes are offered at beginning, intermediate and advanced levels. Classes are free.

**General Educational Development (G.E.D.) Preparation Program**

To prepare a student for the G.E.D. test of high school equivalency, the Reading Area Community College offers preparation classes, free of charge, to adults in our community. These classes meet both days and evenings at different locations throughout the county. An annual graduation is held in June. Tutors are available to help students achieve success in their class work.

**General Educational Development Test (G.E.D.)**

The G.E.D. test is administered at Reading Area Community College several times each month. Pennsylvania residents (adults 18 years and older, as well as 16 and 17 year old participants meeting specific qualifications) are eligible to take the eight-hour exam. All registrations for the G.E.D. test are completed in person at RACC’s Schuylkill Hall (third floor). Payment is required at the time of registration.

To earn a G.E.D., candidates must demonstrate a specific level of competency in the following five subject areas:

- Writing Skills
- Social Studies
- Science
- Reading Skills
- Mathematics

Everyone who successfully meets the scoring requirements established by the state of Pennsylvania will receive a High School Equivalency Diploma from the Department of Education. This diploma is accepted, by law, as a legitimate high school diploma by business, industry, colleges, and most branches of the armed services.

**STANDARD EVENING HIGH SCHOOL**

Students may enroll in the Standard Evening High School operated at Reading Senior High School, 13th and Douglass Streets, to earn a diploma issued by the Reading School District. Students receive credit for previously completed high school courses. Classes are taught Monday and Tuesday, and Wednesday and Thursday evenings from September to May. Graduates of the Standard Evening High School are awarded diplomas in the school’s annual commencement exercises.

Courses which the Standard Evening High School offer each academic year include clerical skills, typing, math, algebra, social studies, home economics, English, languages, art, law, consumer economics, health, biology, advanced biology, and chemistry.

**BERKS COUNTY LANGUAGE BANK SERVICES**

Reading Area Community College is pleased to maintain a Language Bank in the Office of Workforce and Economic Development/Community Education for interested individuals, agencies, businesses, school districts, colleges, hospitals, and legal counsels.

Language Bank:
- Maintains files and resumes of over 25 resource people fluent in English and at least one other language - volunteers and professionals.
- Conducts a referral service for interested clients.
- Provides bilingual translators, tutors, teachers, and communication aides.
- Offers assistance in over 15 languages.

**EVEN START FAMILY LITERACY PROGRAM**

This family program, operated in conjunction with the Reading School District, is for parents and their children, 3 through 7 years. Parents can learn English or study for their GED while their children are in an early childhood class right next to them. Parents also learn parenting skills and different activities to do with their children which will help the children succeed in school. The program takes place mornings and evenings at three sites in the City of Reading.

**CONSIDER THESE ADDITIONAL BENEFITS**

- We are local and we are here when you need us.
- Your employees can be trained individually or together as a team.
- RACC remains on the cutting edge as a provider of continuing education for adults.
- Programs can be developed to suit any topic or training need.
- Programs are structured for all organizational level - from entry level positions to top management.
- Continuing Education Units (C.E.U.’s), certificates of training and credits are offered.

**CREDIT**

In addition to the C.E.U., college credit is available for many courses offered through Workforce and Economic Development/Community Education. Credits earned may be applied to a variety of RACC's associate degree and certificate programs or transferred to other colleges.
Take a look at the following list to discover the realm of occupations served and the services provided by RACC’s Workforce and Economic Development/Community Education Division. Remember! If you cannot find what you are looking for, our staff can develop a program to suit your needs. Give us a call!

**SKILLS & OCCUPATIONS SERVED BY RACC’S WORKFORCE AND ECONOMIC DEVELOPMENT/COMMUNITY EDUCATION DIVISION**

**Senior Leadership & Workforce Development**
- Tools for Profit™
- Creating Alignment™
- Executive Coaching - Leadership Development
- Project Management
- Engineering Systems
- Lean Thinking
- Kaizen
- Six Sigma
- Practical Rheology
- Extrusion of Engineering Plastics
- PVC Rheology & Processing
- Process Improvement
- Reverse Logistics
- Critical Thinking & Problem Solving
- Root Cause Failure Analysis
- Reliability Centered Maintenance
- Total Predictive Maintenance (TPM)

**Manufacturing Technology**
- **Technical Core Modules**
  - Workplace Readiness
  - Workplace Communications
  - Workplace Mathematics
  - Workplace Physics
  - Blueprint/Graphics for the Workplace
  - Microcomputers in the Workplace
  - Foundations of Quality
- **Technical Specialty Modules**
  - Industrial Controls (Basic & Advanced)
  - Troubleshooting Industrial Control Systems
  - Programmable Controllers (Basic & Advanced)
  - Electrical Control Wiring Systems
  - Power Distribution Systems
  - Electrical Motors (AC/DC)
  - Process Control
  - Electronic Drives
  - Plastics Technology
    - Practical Applications for Melt Rheology in Polymer Processing
    - Extrusion of Engineering Plastics for Manufacturing & Process Engineers
  - PVC Rheology & Application in Extrusion
  - Understanding Plastics Materials for Extrusion & Molding
- Robotics and Computer Programs
- Manufacturing Process
- Computer Control Technology
- Computer Integrated Manufacturing
- Quality Assurance
- PC Based Control
- Motion Control

**Information Technology**
- **Certifications**
  - Microsoft Office User Specialist (MOUS)
  - Microsoft Certified Application Developer (MCAD)
  - Microsoft Certified Systems Administrator (MCSE)
  - Microsoft Certified Systems Engineer (MCSE)
  - A+ Core Hardware Service Technician Certification
  - A+ Operating System Technology Certification
  - Net+ Network Certification
  - Net+ Cabling Certification
  - Security+ Certification
- **Software Training**
  - Microsoft Windows XP
  - Microsoft Office Suite
  - Microsoft Word
  - Microsoft Outlook
  - Microsoft Excel
  - Microsoft Access
  - Microsoft PowerPoint
  - Microsoft Publisher
  - Microsoft FrontPage
  - Adobe Photoshop
  - QuickBooks Pro
  - Macromedia Dreamweaver
  - Visual Basic
  - C, C++
  - Java, JavaScript
  - .NET
  - Websphere
  - COBOL
  - DB2
  - SQL
  - SQL Database
  - Oracle Database
  - Website Design and Maintenance
- **Hardware Training**
  - Practical Network Cabling Systems
  - Wireless Networking Technologies
  - Voice Over IP (Internet Protocol)

**Workplace Readiness**
- Communication Skills/Personal Effectiveness
- Personal Effectiveness/Team Approach
- Workplace Mathematics
- Computer Concepts, Applications and Skills
- Refresher Math

**Workplace Literacy**
- Literacy (ESL/GED)
- Math Skills
- Communication Skills

**Health Care**
- ACLS
- Basic Physical Assessment Course
- Clinical Updates
- CPR
- Interpersonal Skills
- Intravenous Therapy
- Management Skills
- PALS
- Refresher Courses for Registered Nurses & Licensed Practical Nurses
- Trends & Issues in Health Care
- Wellness Programs

**Public Safety**
- CPR
- Emergency Medical Services
- Fire Training
- Hazardous Materials
- Municipal Officers Training School (MOTS)
- Police In-Service Training & Career Development

**Vocational/Technical**
- Air Conditioning & Refrigeration
- Auto Body Repair
- Blueprint Reading
- Bricklaying
- Cabinetmaking
- Computer Technology
- Electrical Technology
- Electricity
- Home Remodeling
- Landscaping and Gardening
- Machine Shop
- Plumbing
- Small Engine Repair
- Upholstery
- Welding (Oxyacetylene & Electric Arc)
PHILOSOPHY

Reading Area Community College believes in the educational enrichment of each citizen and the economic and cultural development of the community we serve. Therefore, we are committed to providing diversified educational opportunities for citizens to develop their maximum potential and realize their self-worth and dignity.

The College believes that the responsibility of education in a democracy is to extend to all citizens high-quality programs containing a strong general educational component for personal development and quality academic programs that are responsive to the changing world.

The College believes that the educational process includes programming that supports and informs students about the nature and purpose of available curricula, about their own personal and educational qualities, the nature of current employment opportunities, and vibrant, aesthetic and cultural values inherent in a full life. The College believes in challenging students to reach high expectations and goals based on specified learning outcomes in the belief that students learn best by active involvement in the learning process. Therefore, we encourage that creative flow within both faculty and students.

Finally, the College believes that we have a responsibility to contribute to the growth of the community and to encourage its development. Thus, Reading Area Community College devotes its resources as an educational, recreational, civic and cultural center to the community.

VISION STATEMENT

Reading Area Community College reaffirms its commitment to provide access to quality educational experiences and training opportunities for all citizens of Berks County. Reading Area Community College envisions a society which continues to experience rapid technological change, increase demographic diversity and universal acceptance of the global nature of our economy. This information-based society requires higher levels of educational attainment and job skills training in order for individuals to remain productive members in society and in the workplace.

The College (operating under an open admissions policy) fulfills its mission by providing high quality instruction and services to meet the educational and training needs necessary for a healthy Berks County community and a strong economy. The College’s supportive environment provides personal attention to individual student needs. Our staff is willing and able to spend the necessary time to ensure both access to and success in lifelong learning opportunities to people from diverse backgrounds. The College develops its human, physical and financial resources to ensure its primary role as a provider of educational, technical and cultural experiences for our community. The College takes a leadership role in establishing partnerships with business and industry, local governments, community organizations and other educational institutions to advance the economic development and cultural enrichment of the city, the county and the region.

COLLEGE HISTORY

In 1963, Pennsylvania passed legislation authorizing the development of a statewide system of comprehensive community colleges. The legislation states that community colleges should be locally controlled, responsive to the educational and training needs of the areas they serve, geographically accessible to students and have low tuition.

In September of 1970, the Board of Directors of the Reading School District voted to act as sponsor of a community college and authorized that an application and proposed plan for establishing and operating the new institution be submitted to the Pennsylvania State Board of Education. At its January 15, 1971 meeting, the State Board of Education approved the application permitting the Reading School District to sponsor Reading Area Community College. The sponsor appointed an eleven-member Board of Trustees whose responsibility was to bring the college into existence and supervise its administration. Classes were held for the first time on October 13, 1971, with an enrollment of 265 students.

Initially students attended classes at many locations throughout Reading. In 1977, the college purchased the former Holiday Inn at Second and Penn Streets. After extensive renovations to the building, administrative offices and credit programs were moved to the present riverfront campus in the fall of 1978.

By the fall of 1988, enrolled credit students numbered 1640 and more space was needed. RACC purchased 10 acres of land between its campus and the Schuylkill River that was used primarily for parking. In June of 1989, the East Shore Office
Building, now named Penn Hall, was purchased to serve the growing student body that expanded to 3,231 credit students by the fall of 1994.

Approximately 12,000 non-credit students are also served each year. Classes are conducted at Boyertown, Exeter, Hamburg, Muhlenberg, Reading and Wilson High Schools, the Reading-Muhlenberg Vocational Technical School in Berks County and at several other community sites.

As the college grew, the resources of a single sponsoring school district became inadequate to sustain the required expansion. The majority of students lived in Berks County, outside of the Reading School District. The Berks County Board of Commissioners took the initiative to study the need for a broader base of financial support for RACC. In February of 1990, the commissioners appointed a fifteen-member Citizen Task Force to study the sponsorship issue. In their report presented to the commissioners on September 13, 1990, they stated, "The current situation, where one school district acts as sponsor, is unique in Pennsylvania, is contrary to economic development trends over the life span of the community college, and is clearly untenable in today’s economic climate.” In conclusion, they stated "there is a compelling case for sole sponsorship (of the college) by the county government and the required financial commitment by the county would be reasonable, cost effective and not overly burdensome to the taxpayers.” At the October 4, 1990 meeting of the Berks County Board of Commissioners, they voted unanimously to sponsor Reading Area Community College effective July 1, 1991.

In 1992, Reading Area Community College launched its first capital campaign to secure private funds for a new library. The campaign goal of $1,750,000 was exceeded and $2,739,000 was raised for the project. Those gifts enabled the college to go beyond the original basic facility and include additional educational equipment and laboratories. With the matching funds provided by the Commonwealth of Pennsylvania, a $7.54 million library was constructed.

The Yocum Library, overlooking the Schuylkill River, opened in March of 1996. It includes conference rooms and a humanities center. This distinctive addition to the Reading skyline serves as the landmark building that marks the gateway to the city.

Penn Hall, formerly the East Shore Office Building, was totally renovated in 1995. It houses the Division of Health Professions and Business Division classrooms and laboratories. Its state of the art classrooms and computer equipment prepare students to succeed in the automated workplace.

The Student Union Building, now renamed the Gust Zogas Student Union Building, had been a Zieger & Sons Florists facility. It was opened in the fall of 1996. Currently the bookstore, student government and newspaper offices, a wellness center and a student lounge are located there.

Berks Hall, the original campus building, was remodeled in 1996. The finished project incorporates landscaped pathways, lighting and outdoor lounge areas that transformed Reading Area Community College into an attractive, city-based campus. In late 1996, the college purchased a 2.4-acre tract of land between the Penn Street Bridge and the Front and Washington Streets parking garage from the City of Reading for a future building project. Also in 1996, the Reading Area Community College celebrated its 25th Anniversary.

In the fall of 2002, RACC enrolled a record 3,800 credit students. The college adapted to this major growth and underwent another campus-altering change. The president of 17 years, Dr. Gust Zogas, announced his retirement as of December 31. The Board of Trustees named Dr. Richard A. Kratz, former vice president/dean of academic affairs, the fourth president of RACC.

During Dr. Kratz’s tenure as president, enrollment grew to nearly 4,500 and two more buildings were completed and grace the north side of the campus today. The Schmidt Training and Technology Center provides customized training for business and industry and the Miller Center for the Arts provides the college and region with a state-of-the-art 500-seat theatre.

Upon Dr. Kratz’s announcement of his plans to retire in June of 2007, the Board of Trustees initiated a national search for the fifth president of Reading Area Community College and appointed Anna D. Weitz, D.Ed., who began her term on June 1.
Faculty and Staff

ADMINISTRATION

ANNA D. WEITZ, President; Ed.D., The Pennsylvania State University; M.Ed., University of Albany; B.A., Boston University

GARY E. RIZZO, Vice-President of Academic Affairs/Provost; Ph.D., The University of Pittsburgh; M.S., Case Western Reserve University; B.S., Gannon University

THEODORE BASSANO, Vice-President of Business Services/Treasurer; M.S.Ed., Elmira College; B.A., State University of New York at Binghamton

DIANE M. MARABELLA, Vice-President for Enrollment Management/Student Services; M.Ed., B.S., Kutztown University

ACADEMIC DIVISIONS

Business

LINDA BELL, Chairperson, Business Division; Professor; M.Ed., The Pennsylvania State University; B.S., Shippensburg University; A.A., Bucks County Community College

MARK S. CHESTER, Assistant Professor; J.D., Villanova University School of Law; B.S., University of Lowell

CATHERINE FALLER, Instructor; M.B.A, Kutztown University; B.A., Alvernia College; A.A.S., Reading Area Community College

SUSAN A. HELLER, Professor; M.A., Villanova University; B.S., Elizabethtown College

SANDRA B. KERN, Professor; C.P.S.; D.Ed., Pennsylvania State University; M.Ed., University of Delaware; B.S., Bloomsburg University

MARY LOUISE KLINE, Professor; M.B.A., Lehigh University; B.A., Alvernia College; A.A.S., Reading Area Community College

MARY MACAUSLAND, C.P.A., Associate Professor; M.B.A., Saint Joseph’s University; B.B.A., Temple University

DAVID MOLLURA, Instructor; M.Ed., Kutztown University; B.S., Lock Haven University; A.A., Butler County Community College

JOANN RAWLEY, Instructor; M.S., B.S., National-Louis University; A.A., St. Petersburg College

ELIZABETH STOCK, Instructor; M.Ed., Temple University; B.S., Alvernia College; A.A.S., Reading Area Community College

JANINE TIFFANY, Assistant Professor; M.Ed., Pennsylvania State University; B.S., Bloomsburg University

CHRISTI LOVERICH, Secretary, Academic Division; A.A.S., Reading Area Community College; ASBD, Central Pennsylvania Business College

Health Professions

AMELIA CAPOTOSTA, R.N., Chairperson, Division of Health Professions; Assistant Dean of Health Professions; Ed.D., Temple University; M.S.N., Villanova University; B.S.N., Marymount College; B.A., North Central Bible College; Diploma, Gowaanda State Hospital School of Nursing

LORRAINE McNEIL, R.N., Assistant Director of the Nursing Program; Professor; M.S.N., DeSales University; B.S., Albright College

JAMES CICMAN, RRT, CRT, Coordinator/Instruction of Respiratory Care Program; B.H.S., Governors State University; A.A.S., Triton College

MARIANNE DESMAR AIS, R.N., Instructor; M.S.N., University of Utah; B.S.N., Long Island University; A.A.S., Rockland Community College

SUZANNE M. DIMINO, R.N., Professor; M.S.N., Villanova University; B.S.N., Holy Family College; Diploma, Temple University Hospital School of Nursing

ALAYNE FESSLER, M.T. (ASCP), C.L.S. (NCA), Program Director, Medical Laboratory Technology Program; Instructor; B.A., Susquehanna University

LOUISE FURA, R.N., Assistant Professor; M.S.N., University of Pennsylvania; B.S.N., DeSales University

MERILEE J. GRIMES, R.N., Assistant Director Practical Nursing Program; Professor; M.S., St. Joseph’s University; B.S.N., Villanova University

SHIRLEY A. HAHN, R.N., Instructor; M.S.N., University of Texas Health Science Center; B.S.N., University of Iowa College of Nursing

MARGARET HOLLINGER, R.N., Assistant Professor; M.S.N., DeSales University; B.S.N., Alvernia College; Diploma, The Reading Hospital School of Nursing

KATHLEEN HOLM, R.N., Instructor; M.S.N., DeSales University; B.S.P.A, St. Joseph College; Diploma, Montgomery Hospital School of Nursing

CAROL HUYETT, R.N., Assistant Professor; M.S.N., West Chester University; B.S.N., York College of Pennsylvania

FRANK IPPOLITI, R.N., Instructor; M.S.N., Neumann College; B.S.N., Regents College; A.D.N., Delaware County Community College, LPN, Presbyterian Hospital

JANE JOERING, R.N., Professor; B.S.N, University of Pittsburgh; M.S.N., Alvernia College; Diploma, The Reading Hospital School of Nursing

MATTHEW PAVLICHKO, CRT, RRT, NPS, Instructor; A.A.S., Robert Packer Hospital School of Respiratory Therapy

SANDRA REIDER, R.N., Assistant Professor; M.S.N., University of Phoenix; B.S.N., Kutztown University; B.A., Albright College; Diploma, The Reading Hospital School of Nursing

PATRICIA SCHMEHL, R.N., Instructor; M.S.N., Seton Hall University; B.S.N., Kutztown University; Diploma, St. Joseph Hospital School of Nursing

GERALDINE SHIMKO, R.N., Instructor; B.S.N., University of the State of New York

EUGENIA UM BERGER, R.N., Assistant Professor; M.S.N., Villanova University; B.S.N., Pennsylvania State University; Diploma, Pottsville Hospital School of Nursing

CATHY WEINHEIMER, R.N., Instructor; M.S.N., Duquesne University; B.S.N., Pennsylvania State University

NINI ZOPPEL, R.N., Professor; M.S.N., University of Miami; B.S.N., Saint Louis University

YVONNE DeBECK, Secretary, LPN/RN Evening Program

LAURIE McKinney, Secretary/Assistant, Division of Health Professions
Humanities
KAREN H. JACOBSON, Chairperson, Humanities Division; Professor; Ph.D., University of Pennsylvania; M.Ed., B.A., State University of New York
STEPHANIE J. ANDERSEN, Instructor; M.F.A., UNC Wilmington; B.A., UNC Wilmington
SUSAN BAZYLAK, Associate Professor; M.A., B.S., Kutztown University
MARYANNE BROWN, Instructor; M.A.T., Simmons College; B.A., The Catholic University of America
KAREN WEAVER COLEMAN, Professor; Ph.D., Walden University; M.A., Lehigh University; B.A., Cedar Crest College; B.S., Kutztown University
BAHAR DIKEN, Associate Professor; Ph.D., Indiana University of Pennsylvania; M.A., Bilkent University; B.A., Gazi Teacher Training College
SUSAN DUBY, Instructor; MFA, Vermont College of Norwich University
JOANNE GABEL, Professor, Ph.D., University of Pennsylvania; M.A., Kutztown University; M.S., Wilkes University; B.S., Kutztown University
SUSAN B. HARTMAN, Professor; Ph.D., University of Pittsburgh; Certificate in TESOL, University of California at Los Angeles; M.A., University of Michigan; B.A., Albright College
ALEXIS JARDINE, Associate Professor; M.A., St. Louis University; M.Ed., University of Florida; B.Ed., Andres Bello Catholic University
DAVID LEIGHT, Associate Professor; M.A., B.A., Lehigh University
DWIGHT RINEHART, Assistant Professor; M.S., B.S., Millersville University
JUDITH A. SCHUM, Professor; Ph.D., Indiana University of Pennsylvania; M.A., University of Dayton, B.A., University of Pittsburgh
DONNA SINGLETON, Professor; Ph.D., Indiana University of Pennsylvania; M.A., Southern Illinois University at Edwardsville; B.A., The Colorado College
TRUDY SNYDER, Secretary, Academic Division; A.A., Reading Area Community College

Science and Mathematics
ELLEN S.C. SCHWARTZ, Chairperson, Science and Mathematics Division; Professor; M.S., Drexel University; B.S., Syracuse University
LYNETTE DAVIS, Assistant Professor; M.S., Pennsylvania State University; B.S., University of Pittsburgh
TAMIE S. DICKSON, Instructor; M.Ed., George Mason University; B.S., Shippensburg University
KATHY McCANN EVANS, Professor; M.S., Kutztown University; B.S., Stockton State College
DIANE HOLLISTER, Assistant Professor; M.Ed., Kutztown University; B.A., Messiah College
NARAYANAN KAMPRATH, Professor; Ph.D., M.Phil, M.A., The City University of New York; M.S., B.S., Calcutta University
ANDREW H. LAPINSKI, Professor; M.S., University of Michigan; B.S., Ohio State University
RABINDRA MUKHERJEE, PE, Assistant Professor; MSEE, University of Louisville; B.S., University of Calcutta
ANNELLE R. SOPONIS, Professor; Ph.D., Carleton University; M.S., B.S., University of Pittsburgh
BARBARA STONE, Instructor; M.A., University of Phoenix; B.S., Albright College; B.S., West Chester University
LINDA S. WATERBURY, Professor; M.S.Ed., Temple University; B.A., University of Connecticut; M.T (A.S.C.P.), C.L.S. (N.C.A.) St. Raphael School of Medical Technology

Social Sciences/Human Services
CYNTHIA SEAMAN, Chairperson, Social Sciences/Human Services Division; Assistant Professor; M.S.S., Bryn Mawr College; B.S., Clarkson University
CAROL BEAN-RITTER, Associate Professor; M.Ed., B.S., Millersville University
PAMELA A. R. BLAKELY, Professor; Ph.D., M.A., Indiana University; A.B., Radcliffe College, Harvard University
DANELLE BOWER, Instructor; M.S.W., Washington University; B.S.W., Kutztown University
DAVID BRANT, Assistant Professor; M.A., Kutztown University; M.Div., Lutheran Theological Seminary; B.A., Millersville University
ROBIN ECKERT, Assistant Professor; M.S., Nova University; B.A., Alvernia College; A.A.S., Reading Area Community College
JOHN LAWLOR, Professor; M.A., B.S., Kutztown University
ROBERT J. MILLAR, Professor; M.Ed., B.S., Kutztown University
LUCIA TORCHIA-THOMPSON, CTC, Professor; M.Ed., Alvernia College; M.A., B.A., Kutztown University
IVAN L. TORRES, Professor; Ed.D., Nova University; M.S., Kutztown University; B.S., East Stroudsburg University; A.A., Northampton Area Community College
BARBARA MUTZEL, Secretary, Academic Division; A.A.S., Reading Area Community College

Academic Affairs
GARY E. RIZZO, Vice-President of Academic Affairs/Provost; Ph.D., The University of Pittsburgh; M.S., Case Western Reserve University; B.S., Gannon University
KEVIN J. McGOVERN, Associate Dean of Academic Affairs; Ph.D., University of North Carolina; B.A., Saint Joseph’s University
MARY FLAGG, Director of Assessment; M.S., Wichita State University; M.S., Texas A & M; B.A., LaVerne College
DAMIAN A. CARABELLO; Coordinator of Institutional Research; B.S., Kutztown University

STAFF
RUSSELL HUMMEL, Evening Administrator; M.S., B.S., West Chester University
PATRICIA GERY, Administrative Assistant - Academic Affairs
SHARON SHEARER, Administrative Secretary, Associate Dean of Academic Affairs; A.G.S., Reading Area Community College

Admissions
MARIA MITCHELL, Associate Vice-President for Enrollment Management/Student Services; M.Ed., B.A., Millersville University
JILL CRAMMER, International Admissions Advisor; B.S., Alvernia College; A.A., Reading Area Community College
MELISSA MANZANO, Coordinator of Community Outreach and Recruitment; B.A., Kutztown University; A.A., Reading Area Community College
TRACEY MELLOR, Coordinator of Admissions and High School Recruitment; B.A., Alvernia College; A.A.S., Reading Area Community College
MARGARET WETZEL, Assistant to the Associate Vice-President for Enrollment Management/Student Services
DAVID ZIMMERMAN, CareerLink Specialist; B.S., Lock Haven University
AURIA COLON, Administrative Specialist (Admissions/Advising); A.A.S., Reading Area Community College
DEBRA HETTINGER, Administrative Specialist (Admissions/Advising)

Advising Center
MATTHEW HAUGER, Director of Academic Advising; M.A., Trinity International University; B.A., Moody Bible Institute
GRETCHEN BARRELL, Academic Advisor; B.S., Kutztown University
CARMELA CAPELLUPO-BEAVER, Academic Advisor; B.S., Kutztown University
ANNA L. HEHN, Coordinator of Assessment & Articulation; M.B.A., Kutztown University; B.A., Alvernia College; A.A.S., Reading Area Community College
HIPOLITO SHISH, Coordinator of Advising for Academic Development and Special Populations; M.Ed., B.A., The Pennsylvania State University; A.A.S., Camden County College

Bookstore
KRISTIE HUDZIK, Temporary Bookstore Manager; B.A., Alvernia College; A.A., Reading Area Community College

Business Services
THEODORE BASSANO, Vice President of Business Services/Treasurer; M.S.Ed., Elmira College; B.A., State University of New York at Binghamton
DOLORES PETERSON, Controller; M.B.A., Villanova University; B.S., Philadelphia University
AMY BOYER, Manager of Accounts Payable & Payroll; A.A.S., Reading Area Community College
BRENDA GONZALES, Cashiering Supervisor; A.A.S., Reading Area Community College
JAY HYNEMAN, Manager of Accounts Receivable; B.S., Kutztown University
SANDRA JACKSON, Senior Accountant; B.S., Rochester Institute of Technology
SALLY RODRIGUEZ, Senior Accountant; B.S., Albright College; A.G.S., Reading Area Community College
LAURA CONLIN, Payroll/Accounts Payable Specialist
NILDA MELENDEZ, Administrative Assistant - Business Services
JULIA LUGO, Accounts Receivable Analyst; A.G.S., Reading Area Community College
JEFFREY TAYLOR, Cashier; A.A.S., Reading Area Community College

Center for Academic Success
PATRICIA PARKS, Acting Director Center for Academic Success; M.Ed., B.S., Kutztown University
TOMMA LEE FUSTR, Assistant Director for Academic Support; M.Ed., Kutztown University; B.S., University of Pittsburgh; B.A., Indiana University of Pennsylvania
LINDA M. DAPCIC-ANGST, Act 101 Vocational Specialist, Center for Academic Success; M.A., Kutztown University; B.A., State University of New York
LORI FALSTICH, Career Specialist; M.Ed., Virginia Commonwealth University; B.A., Bloomsburg University
STEPHANIE GIDDENS, Special Population Coordinator; B.S., Lincoln University
JAN-MICHAEL JOHNSON, Act 101 Vocational Specialist; M.H.S., Lincoln University
KYM KLEINSMITH, Adaptive Technology/Educational Support Specialist; M.A.T., Indiana University; B.S., Kutztown University
MICHELE S. LAWLOR, Vocational Specialist; M.A., Kutztown University
LOIS MOYER, LEP Curriculum Specialist/Tutor; B.S., Kutztown University; A.A.S., Reading Area Community College
REBECCA PAULL, Student Facilitator, KEYS Grant; M.S.W., Marywood University; B.A., Millersville University
ALFRED T. VANIM, Coordinator of Student Support Services Program; M.S., Millersville University; B.B.A., Fort Lauderdale College
LOIS VEDOCK, Tutorial Center Manager; M.Ed., Kutztown University; B.S., University of Pittsburgh
DAWN WILLIAMS, Student Facilitator, KEYS Grant; B.A., Pennsylvania State University; A.A., Reading Area Community College
JANE DIETRICH, Transfer Center/Advising Assistant, B.S., Kutztown University
JUDITH A. RUBRIGHT, Assistant to Director, Center for Academic Success; A.A.S., Reading Area Community College
LINDA ILLIG, Special Populations Assistant
JAMICA ANDREWS, Secretary, Center for Academic Success
CAROL WORLEY, Secretary, Act 101
GEORGENE ZIELINSKI, Career Center Specialist
LESLEI DeJESUS, Secretary – KEYS Grant; A.A., Reading Area Community College
Education Laboratory Center
ERICA STRATTON, Coordinator, Education Laboratory Center; B.S., Chestnut Hill College; A.A.S., Reading Area Community College
LORETTA A. CORRIGAN, Teacher; A.A.S., Reading Area Community College
BERNICE HOPKINS, Assistant Teacher, Education Laboratory Center
DARLENE KLINE, Teacher; A.A.S., Reading Area Community College
AMY KOCH, Teacher Aide; A.A.S., Reading Area Community College
ANGELA SPENCER, Assistant Teacher, A.A.S., Reading Area Community College

Enrollment Management/Student Services
DIANE M. MARABELLA, Vice-President for Enrollment Management/Student Services; M.Ed., B.S., Kutztown University
KIMBERLY A. RIVERA, Administrative Assistant – Student Services, B.A., Temple University; A.A., Reading Area Community College

Facilities/Security
JOHN KEEGAN, Director of Facilities and Security Services
KEVIN MACKLEN, Manager, Custodial Services
R. ALAN KRUMANOCKER, Electrician
TAMMY ASHJEAN, General Maintenance Worker 2; A.A., Reading Area Community College
EDWARD BROWN, General Maintenance Worker 2
DEBBIE CASILLAS, General Maintenance Worker 2
DANIEL KAMANU, General Maintenance Worker 2
RAYMOND KNARR, JR., Security Guard
JOSE PAGAN, General Maintenance Worker 2
DWAYNE REBER, General Maintenance Worker 2
RAMON REYES, Building Services Specialist
DONALD SHUKER, Building Services Specialist
ROBERT TARNOSKI, General Maintenance Worker 2
LINDA TORRES, General Maintenance Worker 2
JOSEPH WIELAND, General Maintenance Worker 2
LISA WINGER, General Maintenance Worker 2
LAURA HARRISON, Secretary – Facilities and Security Services

Foundation
GUST ZOGAS, Director of Institutional Advancement/Executive Director of Foundation; Ed.D., Nova University; M.Ed., Temple University; B.S., Kutztown University
HETTIE CAMPION, Office Manager, Foundation; B.A., Bates College
BRENDA CREASY, Scholarship Coordinator; B.S., Kutztown University
ABIGAIL GARCIA, Foundation Accountant; A.A.S., Reading Area Community College

Graphic Arts Production
CYNTHIA L. THORNBURG, Coordinator, Graphic Arts/Production Services; B.S., Kutztown University
TRACY M. REINHART, Senior Press Operator
CYNTHIA K. WEST, Graphic Arts Design/Office Assistant; A.A.S., Reading Area Community College

Human Resources
SCOTT T. HEFFELFINGER, Director of Human Resources, B.S., Bloomsburg University
JOAN M. DIXON, Administrative Assistant - Human Resources, A.A.S., Reading Area Community College

Information Technology
DOUGLAS DAVIS, Director of Information Technology; B.A., Gettysburg College
STEVEN KNEIZYS, Datatel Systems Analyst; B.S., Ursinus College; B.A., Franklin and Marshall College
DAVID RICHARDS, Database and Website Administrator; B.S., Alvernia College
JOSE ARROYO, Computer Operator/Troubleshooter; A.A.S., Reading Area Community College
ARTHUR BROOKS, Network Manager; A.A.S., Reading Area Community College
RONALD KELLY, Website Manager; B.S., Valley Forge Christian College; A.A.S., Reading Area Community College
KENNETH SHEETZ, Network Support Assistant; A.A.S., Reading Area Community College
BERNHARD SORG, Computer Support Specialist; A.A.S., Reading Area Community College
LINDA HENRY, Scheduling Secretary and Secretary for Information Technology; A.A.S., Reading Area Community College

LIBRARY SERVICES AND LEARNING RESOURCES
MARY ELLEN HECKMAN, Assistant Dean for Library Services and Learning Resources, M.L.S., Rutgers University; B.A., The Pennsylvania State University

Yocum Library
JAMES CORBIT, Technical Services Librarian; M.S.L.S., University of Pittsburgh; M.A., Kutztown University; B.A., Alvernia College, A.A., Reading Area Community College
PATRICIA NOUHRA, Public Services/Public Education Librarian; M.S., Clarion University; M.A., Stanford University; B.A., Hunter College
DAVID PENNPACKER, Library Access and Technology Specialist; B.S., Kutztown University
KIM STAHLER, Instruction/Reference Librarian; M.S.L.S., Clarion University; B.S., Kutztown University
EDWARD BUTLER, Head of Circulation and Library Systems; A.A., Reading Area Community College
JOSE ALBY FABIANI, Library Technology Specialist; M.S., Drexel College; B.S., Alvernia College, A.A.S., Reading Area Community College
MIRIAM STONE, Head of Interlibrary Loan and Special Collections; B.A., College Misericordia
JANET GARRISON, Library Assistant
GREGORY KWOLEK, Teacher/Student Advocate; B.A., Hunter College
ROBERT MUTZEL, Coordinator of Reading Even Start Program; M.S.S., Bryn Mawr College; B.S., Elizabethtown College
MARIA PEREZ, Teacher/Student Advocate; M.Ed., B.A., Alvernia College; A.A., Reading Area Community College
MIGDALIA MALDONADO, Social Services Worker, Even Start Program; A.A.S., Inter American University of Puerto Rico; A.A.S., Reading Area Community College
AWILDA BREA
ROBIN MATTIUZ, Senior Secretary – Reading Even Start Family Literacy Program
YRENE RODRIGUEZ, Secretary, ABE/GED/ESL

Enrichment Programs/GED Testing
ROSEMARY VORGITY, Director of Enrichment Programs/GED Testing; B.S., Kutztown University
PATRICE MARTIN, Site Coordinator – Liaison Saturday College/Kids College; B.A., Millersville University
JANE BLANCHARD, Senior Secretary, Workforce and Economic Development/Community Education

Educational Outreach Programs
LAURA KRUSE, Director of 21st Century Programs; M.Ed., Widener University; B.S., University of Idaho
LISA MILLER, Secretary, 21st Century Programs

Faculty and Staff Emerti
BEVERLY BOHNER, (September 1991 – June 2007), Professor; M.S., Lehigh University; B.S. Moravian College; A.A.S., Lehigh County Community College
*RONALD F. BORKERT, (September 1991 – July 2006), Professor, Humanities Division; Emeritus – Posthumously; M.A., B.S., Kutztown University
ROSE MARIE DAY, R.N., (September, 1978 – June, 2002), Professor, Division of Health Professions; Emerita; M.S., University of Maryland; B.S.N., University of Pennsylvania; Diploma, Harrisburg Polyclinic Hospital School of Nursing
ANN L. FLAMM, (September 1979 – June 2007), Professor; M.Ed., Kutztown University; B.S., Bloomsburg University
ELIZABETH W. FRASER, R.N., (September 1989 – June 2007), Professor, M.S.N., B.S.N., University of Rochester
RONALD G. HERTZOG, (September, 1974 – June, 2006), Professor, Science and Mathematics Division; Emeritus; M.Ed., B.S., Kutztown University
SUZANNE KARTERMAN-STORCK, (September, 1991 - December, 2002), Professor, Humanities Division, Emerita; M.Ed., B.S., Kutztown University
BEVERLY J. KOVACS, (August, 1971 – March, 2001), Professor, Social Sciences/Human Services Division; Emerita; M.Ed., Pennsylvania State University; B.S., University of Pittsburgh
RICHARD A. KRATZ, Ed.D., (September 2003 – June 2007), President Emeritus; Ed.D. University of Pennsylvania; M.Ed., Beaver College; B.S., West Chester University
JOSEPH A. LIEBREICH, (September, 1970 – June, 2002), Professor, Business Division; Emeritus; M.B.A., Drexel University; B.Chem. Eng., Cornell University
HELEN C. PEEMOEILLER, (February 1972 – June 2007), Chairperson, Humanities Division; Professor; M.A., University of Wisconsin; A.B., Bryn Mawr College
DIANE SAASAMAN, R.N., (September 1991 – June 2007), Professor; M.S.N., Villanova University; B.S., Millersville University; Diploma, The Reading Hospital School of Nursing
ELISSA S. SAUER, (September, 1974 – June, 1980 and August, 1989 – April, 2000), Assistant Dean of Health Professions Division/Director of RN Program; Emerita; M.S.N., University of Pennsylvania; B.S., Albright College; Diploma, The Reading Hospital School of Nursing
LARRY R. STUCKI, (September 1991 – June 2007), Professor; Ph.D., University of Colorado; M.A., University of California, Los Angeles; B.A., University of Utah
GENE M. WILKINS, Ed.D., (June, 1971 - June, 1987), Vice President of Academic Affairs; Emeritus; Ed.D., Nova University; M.Ed., Temple University; B.S., Kutztown University
SYLVIA E. WOLFF, (January, 1979 – March, 2001), Professor, Humanities Division; Emerita; M.Ed., B.S., Kutztown University
RICHARD F. ZARRILLA, Ph.D., (September 1971 – September, 1998), Professor, Science and Mathematics Division; Emeritus; Ph.D., University of Pittsburgh; B.S., Youngstown University
GUST ZOGAS, Ed.D., (August, 1974 - December, 2002), President, Emeritus; Ed.D., Nova University; M.Ed., Temple University; B.S., Kutztown University

* Deceased
Credit Division Adjunct Faculty

BUSINESS

Sherelyn Ammon, M.B.A.
Judy Arnold, A.A.S.
Rita Barnett, B.S.
Randolph Blatt, B.S. P.E.
Arthur Brooks, A.A.S.
Lela Bryant, B.S.
David Cherrington, A.A.S.
Jill Crammer, B.S.
Kenneth Dearstyn, M.B.A., CMA
Margaret Esterly, M.B.A.
Jose Fabiani, M.S.
Catherine Falla, B.A.
James P. Flannery, B.S.
Kenneth Haupt, B.S.
Mary Ellen Heckman, M.L.S.
Anna Hahn, M.B.A.
Stacia Lassiter, B.S.
Allen Loeb, A.A.S.
Ronald Maras, A.A.S.
Paula Mazurkiewicz, M.B.A.
Judith McArthy, M.S.
Jeanine Metzler, B.B.A.
Charles Milch, M.S.
Curtis Minich, M.S., M.A.
Teresa Minnich, M.B.A.
Connie Mitchell-Bates, M.B.A.
Emily Morad, M.A.
Elizabeth Moriarty, B.S.
Robert Orzechowski, MBA
Tara Oswald, M.Ed.
Dolores Peterson, MBA
Wayne Rauenzahn, B.A.
John Roberts, B.S.
Mary Schweitzer, A.A.
John Shimp, J.D.
Kim Stahlhe, M.S.L.S.
Eugene Valencik, M.B.A.
Liesl Wolf, B.A.

HEALTH PROFESSIONS

Health/Physical Fitness
Sharief Abdul-Qabid, A.G.S.
Joanie Bebb, B.S.
Kristine Danner, B.S.
Paul Melniczek, A.A.S.
Edward Myers, M.Ed.
Angela Skrobak, B.S.
Jerry Theodosio, P.I.S.T.T.D.

Nursing Program
Marianne Desmarais, M.S.N., R.N.
Karen Fry, M.H.A., R.N.
Priscilla Heffelfinger, M.S.N., R.N.
Melissa Hix, M.S.N., R.N.
Frank Ippoliti, M.S.N., R.N.

Practical Nursing Program
Julie Kugler, B.S.N., R.N.
Valerie McSweeney, B.S.N., R.N.
Lizette Newkirk, B.S.N., R.N.
Ruth Reinsel, M.S.N., R.N.
Elissa Sauer, M.S.N., R.N.
Lillian Tryon, M.S.N., R.N.

Medical Laboratory Technology Program
Margaret DiDomenico, B.S., M.T.
(A.S.C.P)
Karen Dietrich, B.S., M.T. (A.S.C.P)
Frank Drummer, B.S., M.T. (A.S.C.P)
Jerome Marcus, M.D.
Linda Miller, B.S., M.T. (A.S.C.P)
Sandra Neiman, M.A., M.T.
Michelle Reed, M.L.T. (ASCP)
Stephanie Schultz, B.S., M.T. (A.S.C.P)

Respiratory Care Program
Joseph Mariglio, M.D.
Matthew Pavlichko, A.A.S., R.R.T-N.P.S.

HUMANITIES

Diana Ahmadi, B.A.
Theresa Barbieri, M.S.
Sharon Brahmidt, M.Ed.
Amanda Burden, Ph.D.
Patricia A. Cavanaugh, M.A.
Jean Cocuzza, M.A.
Brent Collings, M.F.A.
Diane Conrad, M.S.
James Corbit, M.A., M.L.I.S.
Jennifer Daren, M.A.
Dina Delong, B.S.
Tullio DeSantis, M.F.A.
Caroline DiCenso, M.S.
Sarah Edmonds, M.F.A.
Brenda Essig, M.A.
John Fielding, J.D.
Richard Franz, M.A.
James Gaffney, M.A.
J. Daniel Glass, Jr., B.S.
Stephen Goodling, M.A.
Rosemary Hauseman, M.A.
Mark Herr, M.Div.
Dorothy Hoerr, M.A.
Kenneth Ingham, M.S.
Stephanie Jablonski, B.S.
Lori Kata, M.A.
Leslie Leinbach, M.Ed.
Marcia Martin, M.Ed.
Susan McCracken, M.S. Ed.
Maria McDonnell, M.A.
Lois Mendez-Catlin, Ed.D.
Maria Mogford, M.A.
Timothy Mogford, M.Ed.
Nina Mollica, M.A.
John Morgan, D.Min.
Kelly Nash, M.A.
Jorge Nouhra, M.A.
Robert Nye, M.S.
Carmen Paolino, M.A.
William Patterson, M.S.
Janet Rice, M.Ed.
Iris Rigby, B.S.
Kimberly Rowles, M.A.
Heidi Siebels, B.A.
Matthew Skoczen, B.A.
Thomas Stewart, Ph.D.
Susan Summer, M.Phil
Lois VanLeuven, M.A.
Lolita VanPutten, M.Ed.
Marcina Wagner, M.A.
Debora Weinhold, M.A.
Nicolas Wernicki, M.A.
Leslie White, M.A.
Community Education Adjunct Faculty

The Community Education Division of the College serves approximately 10,000 to 12,000 non-credit students each year by offering a wide variety of courses from many different disciplines. The adjunct faculty who teach for this Division have diverse educational backgrounds and experiences which qualify them for their position. Since there are so many courses offered each term, it would be impossible to list an accurate register of the staff members; however, a current roster of the instructors may be obtained from the Department of Continuing Education prior to the start of each session.
<table>
<thead>
<tr>
<th>Subject</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honors Program</td>
<td>10</td>
</tr>
<tr>
<td>Housing</td>
<td>18</td>
</tr>
<tr>
<td>Human Resources Management Certificate Curriculum</td>
<td>56</td>
</tr>
<tr>
<td>Human Services Course Descriptions</td>
<td>99</td>
</tr>
<tr>
<td>Human Services Worker Curriculum</td>
<td>56</td>
</tr>
<tr>
<td>Humanities Course Descriptions</td>
<td>98</td>
</tr>
<tr>
<td>Humanities Division</td>
<td>34</td>
</tr>
<tr>
<td>Humanities Transfer Curriculum</td>
<td>57</td>
</tr>
<tr>
<td>Illustrated Lecture Series</td>
<td>2</td>
</tr>
<tr>
<td>Industrial Administration Transfer Curriculum</td>
<td>57</td>
</tr>
<tr>
<td>Industrial Maintenance Course Descriptions</td>
<td>101</td>
</tr>
<tr>
<td>Information Technology Course Descriptions</td>
<td>100</td>
</tr>
<tr>
<td>Information Technology Transfer Curriculum</td>
<td>58</td>
</tr>
<tr>
<td>Information Technology Curriculum:</td>
<td></td>
</tr>
<tr>
<td>Computer Networking Curriculum Concentration</td>
<td>58</td>
</tr>
<tr>
<td>Computer Programming Concentration</td>
<td>59</td>
</tr>
<tr>
<td>PC User Support Certificate Concentration</td>
<td>60</td>
</tr>
<tr>
<td>Web Site Development Concentration</td>
<td>60</td>
</tr>
<tr>
<td>Computer Networking Certificate Concentration</td>
<td>61</td>
</tr>
<tr>
<td>Computer Programming Certificate Concentration</td>
<td>61</td>
</tr>
<tr>
<td>PC User Support Certificate Concentration</td>
<td>62</td>
</tr>
<tr>
<td>Web Site Development Certificate Concentration</td>
<td>62</td>
</tr>
<tr>
<td>Institutional Core Competencies</td>
<td>28</td>
</tr>
<tr>
<td>Institutional Goals</td>
<td>1</td>
</tr>
<tr>
<td>International Student Applications</td>
<td>10</td>
</tr>
<tr>
<td>Kids’ College Summer Studies</td>
<td>121</td>
</tr>
<tr>
<td>Laboratory Science Curriculum</td>
<td></td>
</tr>
<tr>
<td>Laboratory Assistant Certificate Curriculum</td>
<td>65</td>
</tr>
<tr>
<td>Laboratory Technician Curriculum</td>
<td>64</td>
</tr>
<tr>
<td>Laboratory Assistant Certificate</td>
<td>65</td>
</tr>
<tr>
<td>Laboratory Technician Curriculum</td>
<td>64</td>
</tr>
<tr>
<td>Nanoscience Technology</td>
<td>65</td>
</tr>
<tr>
<td>Law Enforcement Course Descriptions</td>
<td>101</td>
</tr>
<tr>
<td>Legal Studies Course Descriptions</td>
<td>8</td>
</tr>
<tr>
<td>Legal Secretary Curriculum</td>
<td>66</td>
</tr>
<tr>
<td>Legal Secretary Skills Diploma</td>
<td>67</td>
</tr>
<tr>
<td>Legal Secretary Skills Diploma</td>
<td>67</td>
</tr>
<tr>
<td>Letter Grades</td>
<td>24</td>
</tr>
<tr>
<td>Letter Indicators</td>
<td>24</td>
</tr>
<tr>
<td>Liberal Arts Transfer Curriculum</td>
<td>67</td>
</tr>
<tr>
<td>Library (Vocum)</td>
<td>19</td>
</tr>
<tr>
<td>Life Experience Assessment</td>
<td>11</td>
</tr>
<tr>
<td>Literacy</td>
<td>100</td>
</tr>
<tr>
<td>Machine Tool Technology Concentration</td>
<td>102</td>
</tr>
<tr>
<td>Machine Tool Technology (Daytime) Certificate Curriculum</td>
<td>69</td>
</tr>
<tr>
<td>Machine Tool Technology (Apprenticehip) Certificate</td>
<td>69</td>
</tr>
<tr>
<td>Machine Tool Technology (Apprenticeships) Certificate</td>
<td>69</td>
</tr>
<tr>
<td>Machine Tool Technology Transfer Curriculum</td>
<td>68</td>
</tr>
<tr>
<td>Major Violations of College Regulations</td>
<td>23</td>
</tr>
<tr>
<td>Management Course Descriptions</td>
<td>104</td>
</tr>
<tr>
<td>Mathematics Source Descriptions</td>
<td>121</td>
</tr>
<tr>
<td>Mechanical Engineering Technology Transfer Curriculum</td>
<td>70</td>
</tr>
<tr>
<td>Mechatronics Engineering Technology</td>
<td>105</td>
</tr>
<tr>
<td>Medical Laboratory Technician Course Descriptions</td>
<td>107</td>
</tr>
<tr>
<td>Medical Laboratory Technician Curriculum</td>
<td>70</td>
</tr>
<tr>
<td>Medical Laboratory Technician Curriculum</td>
<td>70</td>
</tr>
<tr>
<td>Medical Technology Transfer Curriculum</td>
<td>71</td>
</tr>
<tr>
<td>Medical Secretary Certificate Curriculum</td>
<td>72</td>
</tr>
<tr>
<td>Medical Secretary Certificate</td>
<td>71</td>
</tr>
<tr>
<td>Medical Secretary Certificate</td>
<td>72</td>
</tr>
<tr>
<td>Medical Secretarial Skills Diploma</td>
<td>73</td>
</tr>
<tr>
<td>Medical Transcriptionist Diploma</td>
<td>73</td>
</tr>
<tr>
<td>Meet the Artist Series</td>
<td>121</td>
</tr>
<tr>
<td>Memberships</td>
<td>1</td>
</tr>
<tr>
<td>Military Evaluation</td>
<td>12</td>
</tr>
<tr>
<td>Nanoscience Course Descriptions</td>
<td>108</td>
</tr>
<tr>
<td>Networking Course Descriptions</td>
<td>109</td>
</tr>
<tr>
<td>Notification of Acceptance</td>
<td>2</td>
</tr>
<tr>
<td>Nursing Course Descriptions</td>
<td>100</td>
</tr>
<tr>
<td>Nursing Curriculum</td>
<td>73</td>
</tr>
<tr>
<td>Occupational Programs</td>
<td>120</td>
</tr>
<tr>
<td>Open Admissions Policy</td>
<td>2</td>
</tr>
<tr>
<td>Operations Management Concentration Curriculum</td>
<td>43</td>
</tr>
<tr>
<td>Orientation Course Descriptions</td>
<td>111</td>
</tr>
<tr>
<td>Parking</td>
<td>18</td>
</tr>
<tr>
<td>Payment of Tuition</td>
<td>7</td>
</tr>
<tr>
<td>Pharmacy Transfer Curriculum</td>
<td>41</td>
</tr>
<tr>
<td>Phi Theta Kappa International Honor Society</td>
<td>18</td>
</tr>
<tr>
<td>Philosophy Statement</td>
<td>124</td>
</tr>
<tr>
<td>Physics Course Descriptions</td>
<td>112</td>
</tr>
<tr>
<td>Placement Tests</td>
<td>2</td>
</tr>
<tr>
<td>Political Science Course Descriptions</td>
<td>112</td>
</tr>
<tr>
<td>Portugal Development/Community Education</td>
<td>119</td>
</tr>
<tr>
<td>Professional Nursing Course Descriptions</td>
<td>112</td>
</tr>
<tr>
<td>Professional Nursing Certificate Curriculum</td>
<td>74</td>
</tr>
<tr>
<td>Pre-Law/Public Administration Transfer Curriculum</td>
<td>75</td>
</tr>
<tr>
<td>Probation (Academic)</td>
<td>25</td>
</tr>
<tr>
<td>Professional Childcare Certificate Curriculum</td>
<td>75</td>
</tr>
<tr>
<td>Professional Pilot Curriculum</td>
<td>75</td>
</tr>
<tr>
<td>Program Change</td>
<td>21</td>
</tr>
<tr>
<td>Programming Course Descriptions</td>
<td>113</td>
</tr>
<tr>
<td>Psychology Course Descriptions</td>
<td>114</td>
</tr>
<tr>
<td>Psychology Transfer Curriculum</td>
<td>75</td>
</tr>
<tr>
<td>Public Safety</td>
<td>120</td>
</tr>
<tr>
<td>Quality Point Average</td>
<td>25</td>
</tr>
<tr>
<td>Readmission Procedures</td>
<td>6</td>
</tr>
<tr>
<td>Regents College Exam</td>
<td>12</td>
</tr>
<tr>
<td>Registration</td>
<td>21</td>
</tr>
<tr>
<td>Respiratory Care Course Descriptions</td>
<td>115</td>
</tr>
<tr>
<td>Respiratory Care Curriculum</td>
<td>76</td>
</tr>
<tr>
<td>Retail Management Certificate Curriculum</td>
<td>77</td>
</tr>
<tr>
<td>Right-to-Know Act</td>
<td>23</td>
</tr>
<tr>
<td>Saturday College</td>
<td>121</td>
</tr>
<tr>
<td>Schedule Changes</td>
<td>21</td>
</tr>
<tr>
<td>Schmidt Training and Technology Center</td>
<td>119</td>
</tr>
<tr>
<td>Scholarships</td>
<td>17</td>
</tr>
<tr>
<td>Science &amp; Mathematics Division</td>
<td>34</td>
</tr>
<tr>
<td>Science Transfer Curriculum</td>
<td>77</td>
</tr>
<tr>
<td>Second Certificate</td>
<td>26</td>
</tr>
<tr>
<td>Second Degree</td>
<td>26</td>
</tr>
<tr>
<td>Second Diploma</td>
<td>26</td>
</tr>
<tr>
<td>Secondary Education Concentration Transfer Curriculum</td>
<td>51</td>
</tr>
<tr>
<td>Selective Admissions Programs, Requirements for Management</td>
<td>3</td>
</tr>
<tr>
<td>Secretary Graduate Certificate</td>
<td>8</td>
</tr>
<tr>
<td>Short Course Descriptions</td>
<td>121</td>
</tr>
<tr>
<td>Small Business Management Certificate Curriculum</td>
<td>77</td>
</tr>
<tr>
<td>Small Business Management Concentration</td>
<td>45</td>
</tr>
<tr>
<td>Social Science Technology Course Descriptions</td>
<td>116</td>
</tr>
<tr>
<td>Social Science &amp; Human Services Division</td>
<td>34</td>
</tr>
<tr>
<td>Social Work Curriculum</td>
<td>78</td>
</tr>
<tr>
<td>Sociology/Anthropology Transfer Curriculum</td>
<td>78</td>
</tr>
<tr>
<td>Sociology Course Descriptions</td>
<td>116</td>
</tr>
<tr>
<td>Sophomore Classification</td>
<td>21</td>
</tr>
<tr>
<td>Spanish Course Descriptions</td>
<td>117</td>
</tr>
<tr>
<td>Special Education Concentration Transfer Curriculum</td>
<td>52</td>
</tr>
<tr>
<td>Special Education Course Descriptions</td>
<td>117</td>
</tr>
<tr>
<td>Special Education Paraeducator Curriculum</td>
<td>79</td>
</tr>
<tr>
<td>Staff &amp; Faculty Listing</td>
<td>127</td>
</tr>
<tr>
<td>Science &amp; Mathematics Division</td>
<td>122</td>
</tr>
<tr>
<td>Statement of Academic Honesty</td>
<td>23</td>
</tr>
<tr>
<td>Student Activities</td>
<td>18</td>
</tr>
<tr>
<td>Student Appeal of Grades</td>
<td>25</td>
</tr>
<tr>
<td>Student Classification</td>
<td>21</td>
</tr>
<tr>
<td>Student Government Association</td>
<td>18</td>
</tr>
<tr>
<td>Student Records</td>
<td>23</td>
</tr>
<tr>
<td>Student Right-to-Know Act</td>
<td>23</td>
</tr>
<tr>
<td>Tech Prep</td>
<td>11</td>
</tr>
<tr>
<td>Transcripts</td>
<td>22</td>
</tr>
<tr>
<td>Transfer Center Services</td>
<td>14</td>
</tr>
<tr>
<td>Transfer Credit</td>
<td>12</td>
</tr>
<tr>
<td>Tuition</td>
<td>7</td>
</tr>
<tr>
<td>Tutoring Services</td>
<td>15</td>
</tr>
<tr>
<td>Unemployed Policy</td>
<td>7</td>
</tr>
<tr>
<td>Veterans Services</td>
<td>16</td>
</tr>
<tr>
<td>Violation of College Regulations</td>
<td>23</td>
</tr>
<tr>
<td>Vision Statement</td>
<td>124</td>
</tr>
<tr>
<td>Vocational Technical Programs</td>
<td>120</td>
</tr>
<tr>
<td>Web Course Descriptions</td>
<td>118</td>
</tr>
<tr>
<td>Web Enhanced Courses</td>
<td>19</td>
</tr>
<tr>
<td>Word Processing Specialist Curriculum</td>
<td>80</td>
</tr>
<tr>
<td>Workforce and Economic Development/Community Education</td>
<td>119</td>
</tr>
<tr>
<td>Yocum Library</td>
<td>19</td>
</tr>
</tbody>
</table>
Reading Area Community College reserves the right to change any provisions of this Catalog without notice. It is the responsibility of students to keep abreast of changes that may occur by maintaining close contact with their academic advisor. The date of publication of this Catalog is July, 2007 and is reflective of changes which were approved by the Curriculum Committee up to the meeting of June, 2007.

Reading Area Community College, an equal opportunity college, does not discriminate against persons in employment, educational programs or activities, vocational programs or awarding of contracts based on race, gender, religion, national origin, age, color, sexual orientation, veteran status or disability. This Board of Trustees Policy #840, Affirmative Action and Nondiscrimination, extends to all other legally protected classifications and is published in accordance with state and federal laws including Title IX of the Educational Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990. Affirmative Action inquiries should be directed to the Affirmative Action Officer, RACC, P.O. Box 1706, Reading, PA 19603 (610/372-4721). All colleges and universities, in compliance with the Pennsylvania College and University Security and Information Act of 1988 and the Student Right-to-Know and Campus Security Act, are required to provide information regarding safety and security procedures and statistics on campus. A copy of this report is available by contacting the Dean of Students office, Room 126, Berks Hall.