



**READING AREA COMMUNITY COLLEGE
2009 - 2010 STUDENT CATALOG**

2009-2010 ACADEMIC CALENDAR

SUMMER SESSIONS 2009

8 Week Session	Monday, June 8 through Thursday, July 30
5 Week Session A	Monday, June 8 through Wednesday, July 15
Independence Day (<i>College Closed</i>)	Friday, July 3 – Sunday, July 5
5 Week Session B	Monday, July 13 through Thursday, August 13

FALL SEMESTER 2009

Faculty Return	Friday, August 21
Fall Classes Begin	Monday, August 24
Saturday Classes Begin	Saturday, August 29
Labor Day Recess (<i>College Closed</i>)	Saturday, September 5-7
No Classes	Tuesday, November 24 & Wednesday, November 25
Fall Recess (<i>College Closed</i>)	Thursday, November 26- Sunday, November 29
Classes End	Friday, December 11
Saturday Classes Final Exam	Saturday, December 12
FINAL EXAM PERIOD	Monday, December 14-17
Application Deadline for May Graduation	Thursday, December 17
Practical Nursing Graduation	Thursday, December 17
Winter Break I (<i>College Closed</i>)	Wednesday, December 23-27
<i>The College will be open for business on December 28-30, 2009</i>	
Winter Break II (<i>College Closed</i>)	Thursday, December 31/Jan 1-3
<i>The College will reopen for business on January 4, 2010</i>	

JANUARY SESSION 2010

Interim Session Begins	Monday, January 4
Registration for Summer Sessions Begins	Monday, January 4
Martin Luther King Holiday (<i>College Closed</i>)	Monday, January 18
Interim Session Ends	Friday, January 22

SPRING SEMESTER 2010

Saturday Classes Begin	Saturday, January 23
Spring Semester Classes Begin	Monday, January 25
Spring Break I – No Classes	Monday, March 29-Thursday, April 1
<i>(The College will be open for business on March 29 through April 1, 2010)</i>	
Spring Break II (<i>College Closed</i>)	Friday, April 2-Sunday, April 4
Saturday Classes Final Exam	Saturday, May 8
Spring Semester Classes End	Monday, May 10
FINAL EXAM PERIOD	MONDAY, MAY 17-20
Health Professions Reception at the Miller Center for the Arts - 10 AM	Friday, May 21
Commencement at the Sovereign Center - 2 PM	Friday, May 21

A complete 2009-2010 calendar is listed in the 2009-10 Student Handbook and is also available on the website at www.racc.edu under Quick Links.



READING AREA COMMUNITY COLLEGE

ADMINISTRATION

Anna D. Weitz, D.Ed., President
Gary E. Rizzo, Ph.D., Senior Vice President for Academic Affairs/Provost
Theodore Bassano, Senior Vice President of Business Services/Treasurer
Diane M. Marabella, Senior Vice President for Enrollment Management/Student Development

RACC BOARD OF TRUSTEES

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Kevin S. Barnhardt
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READING AREA COMMUNITY COLLEGE

Ten South Second Street
P.O. Box 1706
Reading, Pennsylvania 19603-1706
610.372.4721 • 1.800.626.1665
www.racc.edu

MISSION STATEMENT

Reading Area Community College is an accredited, comprehensive, open-enrollment educational institution that provides the following: associate degree, certificate and diploma programs; career-focused training; transitional coursework; skills training for business and industry; personal enrichment programs and public service activities. Sponsored by the Berks County Board of Commissioners, the College provides affordable access to meet identified community educational needs.

Statement of Institutional Mission and Core Values

Reading Area Community College builds communities of learning committed to educational growth and to the economic vitality in our region.

At RACC . . .

- We strive for excellence in all our actions.
- We promote student learning and personal growth through teaching and mentoring.
- We create welcoming and safe environments where intellectual curiosity and learning can flourish.
- We value the diversity in our community and the richness it brings.
- We connect students to resources within the College and the community at large that best meet their educational needs.
- We are committed to lifelong learning both for students and ourselves.

At RACC, we are a community-focused institution.



TELEPHONE DIRECTORY

Adult Education, GED, ESL	610.607.6227
Announcement Mailbox/Inclement Weather	610.607.6293
Cashier's Office/Student Bills	610.607.6235
Center for Academic Success/Services for Students with Disabilities	610.607.6245
Day Care Center (Education Laboratory Center)	610.607.6236
Distance Learning@RACC	610.372.4721, Ext. 5061
Enrollment Services	610.607.6224
General Information	610.372.4721 or 1.800.626.1665
Fax Number/Student Services	610.607.6290
Financial Aid	610.607.6225
Records Office	610.607.6225
Schmidt Training and Technology Center	610.607.6207
Senior Vice President for Enrollment Management/Student Development	610.607.6255
Senior Vice President of Academic Affairs/Provost	610.607.6213
TDD - Berks Hall	610.236.3940
TDD - Yocum Library	610.236.3941
Web Site	www.racc.edu
Workforce and Economic Development/Community Education	610.607.6231 or 610.607.6232

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Academic Programs

PROGRAMS	AA (TRANSFER)	AS (TRANSFER)	AAS (CAREER)	CERTIFICATE	DIPLOMA	DIVISION	PAGE NUMBER
Accounting	X		X	X		Business	37
Addictions Studies	X					Social Science	39
Bookkeeping/Accounting					X	Business	41
Business Administration	X					Business	42
Business Management			X	X		Business	42
Communications	X					Humanities	44
Computer Information Systems	X					Business	45
Computer Technology			X			Business	46
Criminal Justice/Law Enforcement			X			Social Science	47
Culinary Arts			X	X		Business	48
Early Childhood Education Programs:							
Early Childhood Diploma					X	Social Science	50
Early Childhood Director				X		Social Science	50
Early Childhood Education Management			X			Social Science	52
Early Childhood Education Teaching			X			Social Science	53
Early Childhood Professional Childcare				X		Social Science	51
Education Transfer:							
Elementary Education	X					Social Science	54
Secondary Education	X					Social Science	55
Educational Assistant/Paraeducator			X			Social Science	56
Electric Utility Technology			X			Science*	57
Heating, Ventilation, AC, & Refrigeration			X	X		Science*	59
Human Services Worker			X			Social Science	61
Humanities	X					Humanities	62
Liberal Arts	X					Humanities	65
Machine Tool Technology			X			Science*	66
Mechatronics Engineering Technology			X			Science*	67
Medical Laboratory Technician			X			Health**	68
Nanoscience Technology			X	X		Science*	72
Nursing			X			Health**	74
Occupational Therapy Assistant			X			Health**	75
Office Technology Programs:							
Administrative Assistant			X			Business	40
Basic Secretarial Skills				X		Business	41
Executive Secretary			X			Business	58
Legal Secretary			X	X		Business	63
Medical Secretary			X	X		Business	69
Medical Transcriptionist					X	Business	71
Physical Therapy Assistant				X		Health**	76
Practical Nursing				X		Health**	77
Pre-Law/Public Administration	X					Social Science	78
Psychology	X					Social Science	79
Respiratory Care			X			Health**	80
Science Transfer		X				Science*	81
Social Work	X					Social Science	81
Sociology/Anthropology	X					Social Science	82
Web Site Development			X	X		Business	84

The College also offers an Associate in General Studies degree.

*Science and Mathematics Division

** Division of Health Professions

This College catalog is effective beginning with the Fall Semester 2009 and continuing through the Main Summer Session 2010.

Students who were enrolled at RACC prior to the 2005 Fall 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 2005 Fall 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 2009 Semester.

Goals and Accreditations



INSTITUTIONAL GOALS

Reading Area Community College is committed to:

1. Offering high quality educational programs, leading to an associate degree, certificate or diploma which prepares students to transfer to baccalaureate degree granting institutions or to enter business and industry.
2. Providing 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. Offering instructional programs containing a strong general education component which promotes a respect for a multi-cultural society and which actively involves students in learning for professional and personal growth.
4. Providing students with effective developmental services that link into college level coursework and remedial programs that allow them to reach their potential.
5. Providing 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. Acting as a partner in the life of the community through outreach activities that support educational, occupational and service organizations, and community interests and being responsive to a rapidly changing environment.
7. Providing 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. Securing and allocating 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 Science 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
- 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
- The Associate Degree Nursing and Practical Nursing Programs are approved by the Pennsylvania State Board of Nursing. Both programs are accredited by the National League for Nursing Accrediting Commission, Inc. For more information regarding the NLNAC, contact 61 Broadway, New York, NY, 10006 or 1.800.669.1656.

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

Admissions Information

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 Science 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 two semester basis consisting of 15 weeks each, exclusive of 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 students who have received their high school diploma or G.E.D. certificate will be accepted upon completion of the placement test. 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 staff.

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.
- Electric Utility Technology - 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
- 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 test in English and Mathematics before registering for credit courses. Students are strongly urged to prepare for the placement test in any of the following ways:

- View the data on the ACT website at <http://www.act.org/compass/sample/index.html> and take practice tests.
- Obtain a high school mathematics textbooks to review concepts.

Students who fail to adequately review for the placement test run the risk of being placed in classes below their actual competency level.

- Placement test scores will determine the placement of the student into the developmental reading, writing, and/or mathematics courses or college-level English and/or mathematics courses.
- The placement test can be waived only for students who have completed a college-level English Composition and/or mathematics courses from an accredited institution with a grade of "C" or better. Students must provide evidence of such completion in the form of either transcripts or formal grade reports.
- Students who withdraw from Reading Area Community College and return after one or more years must re-apply for admission. Students who have not completed required coursework within two years of taking placement test will need to retake the appropriate test(s).
- Prior to taking a placement test, students with documented disabilities should notify the Center for Academic Success for appropriate accommodations.
- Only under the most extenuating circumstances can students petition the Humanities and/or Science/Mathematics Division chair or relevant program coordinator for permission to retake the placement test

NOTIFICATION OF ACCEPTANCE

Applicants will be notified of their acceptance 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 Science, 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 and be 16 years of age. The Associate Vice President for Enrollment Management/Student Development reserves the right to decline admission to any Headstart to College applicant after a review of their transcripts and required placement test 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.
 - c. **All Others:** Individuals may wish to take a specific course or courses for job improvement or enrichment but not necessarily work toward obtaining a degree. Coursework taken may be later applied toward a degree from the College or may be presented for transfer credit at another college or university.

*Nondegree Candidates do not qualify for Financial Aid. Also, official evaluations of transfer work will not be performed for students in this category.

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GENERAL ADMISSIONS PROCEDURES

DEGREE CANDIDATE

1. Submit the application for admission.
2. Request that the high school forward an official copy of their complete high school transcript directly to the Admissions Office.
3. Applicants who hold a high school equivalency diploma (G.E.D.) should request an official copy of their G.E.D. scores to be sent to the Admissions Office. (Requests can be made to the Department of Education from the state in which you earned the G.E.D.)
NOTE: Applicants who did not finish high school and do not hold a G.E.D. will be evaluated on any or all of the following: readiness to undertake college work on the basis of placement test results, previous scholastic records, interviews or employment experience, and will be admitted to the College only after such evaluation. Contact the Associate Vice President for Enrollment Management/ Student Services for details.
4. If applicable, request that official transcripts be sent to the Admissions Office from all post-secondary institutions and/or colleges/universities attended.
5. Take placement test.

NONDEGREE CANDIDATES

Transient:

1. Submit the application for admission.
2. We recommend that you have the college or university at which you are pursuing your degree complete and forward to the Admissions Office a Transient Student Application form, granting permission for a term of study and approving transfer credit for courses completed. (If the course approval for Transient Student is provided, the College may waive the placement test.)
3. Take placement test if appropriate.

All Others:

1. Submit the application for admission.
2. Take placement test.

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.

COLLEGE ENROLLMENT OPPORTUNITIES WHILE STILL IN HIGH SCHOOL

Head-Start to College:

RACC strongly encourages students to complete their high school diploma. The Head-Start to College Program is an opportunity for high school students to enroll in college course work while still enrolled in high school.

High school students interested in enriching their curriculum with college course work during their junior and senior year may request consideration for the Head-Start to College Program. The Admissions Office, in consultation with the guidance counselor, evaluates each request on an individual basis. Students considering the Head-Start to College Program must exhibit maturity and demonstrate above average academic achievement (A/B average) to benefit from a college level course. Additionally, the student must be 16 years of age at the time of application.

To be considered for the Head-Start to College Program, a student must:

1. Make an appointment to interview with an Admissions representative. The deadline to contact Admissions for an appointment is July 1st for the fall semester; November 1st for the spring semester; April 15th for the summer session. These deadlines are earlier than RACC's other registration deadlines to ensure enough time for the interview, approval, testing, and advising process.
2. Students must bring to the interview the completed Head-Start to College Program application form, a completed application for admission, and an official high school transcript.
3. Students applying to the Head-Start to College Program must take the math, reading, and writing placement test within two weeks of completing the application. The placement test is administered on a computer and takes about 2½ hours. Placement test results are mandatory and will be used by the Admissions staff to admit and register the student accordingly. Admission to the program will be determined by the student's placement test results.
4. After the placement test, the student will make a follow-up appointment with the Admissions staff for advising and registration. Admission into the Head-Start to College Program is determined by the high school transcript and placement test recommendations. Students can register for two classes in each semester and will not be permitted to enroll as a full time student. Students

must meet the prerequisite/s for the class(es) in which they are registered.

5. Students should be prepared to make payment at the time of registration. A payment plan is available for this purpose. High school students are not eligible for financial aid. If the school district is sponsoring the student's tuition, a written document is required to be submitted to the Cashier's Office.
6. Upon completion of coursework, it is the student's responsibility to request that a RACC transcript is sent to the high school. Students may view their final grades online by accessing their web advisor account. Grades received at RACC become part of the permanent college transcript. While RACC courses are accredited by Middle States, transferability of RACC coursework taken while in high school is at the discretion of the transfer institution.
7. Head-Start to College Program students are expected to adhere to the Student Code of Conduct as indicated in the College's Student Handbook. Failure to do so may result in disciplinary action and/or dismissal from the College.
8. Head-Start to College Program students are not permitted to make changes to their schedule without first consulting with the Admissions Office.
9. Upon proof of graduation from high school, the student is permitted to enroll as a full-time student, provided he/she is not on academic probation or has been dismissed from the college.

Dual Enrollment at Local High Schools

Reading Area Community College has entered into partnerships with 14 area high schools to offer college credit for college-level course taught in the high school which have been reviewed and deemed equivalent to a specific Reading Area Community College course.

Presently, a total of 31 college courses are available to qualifying students. During the 2008-09 academic year, there were 1880 registrations in 139 sections.

Below are the procedures which need to be followed in order to take advantage of this opportunity.

1. An application and dual enrollment registration form need to be secured from the high school guidance office and returned completely filled out by the specified date.
2. Based on a student's PSSA score and/or recommendation from their high school, students are allowed to register for the dual enrollment course providing all prerequisites have been met.

Admissions Information



3. The completed forms are sent to the RACC liaison who forwards the applications/registrations to admissions/records.
4. If the course is funded, even partially, student must notify college at time of registration.
5. Students receive a grade from RACC at the completion of the course. All grades may be accessed through the student's webadvisor account.
6. Should a student wish to have an official transcript, they may request this in writing or by accessing RACC's website for a transcript request form.

For additional information please contact the Coordinator of Special Programs at 1.800.626.1665 ext. 6219 or 610.607.6219. Email calspach@racc.edu.

SELECTIVE ADMISSIONS PROCEDURES

All applicants must fulfill the requirements for admission as degree candidates; that is, apply, forward official copies of all academic transcripts, and take the placement test. 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.

ELECTRIC UTILITY TECHNOLOGY PROGRAM

Students who declare their intended major to be Electric Utility Technology are not officially accepted into FirstEnergy's Power Systems Institute until the following requirements are completed:

1. Technical Evaluation
2. Background Check
3. Physical Capabilities Assessment
4. Climbing Course

See the program coordinator for details.

MEDICAL LABORATORY

TECHNICIAN PROGRAM

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 035, MAT 110.
3. Meet with the M.L.T. program director for an interview to discuss the academic background, the M.L.T. program, and the selective M.L.T. admissions policies before declaring a major of Medical Laboratory Technology. The interview is mandatory.
NOTE: For progression into the clinical experience courses in the second year of the program, students must:
 - a. Obtain a minimum G.P.A. of 2.5 in the following courses: BIO 250, BIO 255, BIO 280, CHE 110, CHE 150, CHE 220, MAT 210, MLT 120.



Effective Fall 1995:

- b. Obtain a "C" grade or better in all first year courses: COM 121, CHE 110, CHE 150, CHE 220, BIO 250, BIO 255, MAT 210, HEA 220, MLT 120, COM 131 or 141. These courses must be completed by the end of Spring semester of the year preceding clinical experience.
- c. Have a medical examination certifying the student to be physically fit and immunizations are up-to-date.
- d. Submit two letters of reference; one of which must be from a faculty member; either full-time or adjunct.
- e. Submit a short letter on why they have chosen Medical Laboratory Technician work as a career.
- f. Submit evidence of Hepatitis B vaccination.
- g. Submit evidence of current CPR certification.
- h. Submit a current PA Child Abuse Clearance and a current PA State Police Criminal Background Check.
- i. Submit proof of a recent negative drug screen test.

The preceding policies will be revised in keeping with the most recent accrediting agency policies.

A selection committee will review all records, determine the eligibility of students and then select those students who will progress into the clinical experience. The date of enrollment in the Medical Laboratory Technician program will remain as the deciding factor between two equally qualified students. Rotation sites for clinical experience will be assigned by the MLT Selection Committee.

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 Medical Laboratory Technician Program per stated admission requirements at Reading Area Community College.

*Visit our web site at
www.racc.edu*

NURSING PROGRAM

Applicants must:

1. Have completed work equal to a standard high school course with a minimum of 16 units, including four units of English, three units of Social Studies, two units of Mathematics (one of which is algebra), and two 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 test. If the student does not 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 clinical course. Example: If the math placement score indicates placement into Basics of College Mathematics then the student must take Basics of College Mathematics 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 test or take appropriate courses.
5. Students enrolled at Reading Area Community College must attain and maintain a cumulative GPA of 2.5 or higher to be eligible for admission to the Nursing Program.
6. After completing prerequisite chemistry and mathematics requirements, earning required "C" grades and GPA of 2.5 or higher, student must complete the clinical eligibility form and submit it to the Admissions Office, Berks Hall, Room 111. **Student must maintain the required GPA of 2.5 or higher to remain eligible for admission.**
7. Submit evidence of good mental and physical health. All applicants will be expected to demonstrate "Essential Abilities/Qualities of a Professional Nursing Student" (see website for details).
8. Submit evidence of required negative drug panel, immunizations or antibody titers by the required deadline.
9. Submit evidence of current CPR Certification for the Healthcare Professional at the beginning of each nursing (NUR) course.
10. Submit evidence of current health insurance at beginning of each clinical nursing course.
11. Sign an affidavit stating that the student has 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 10 years have elapsed from the date of conviction;*
 - (b) *The applicant satisfactorily demonstrates to the State 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.*
12. 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 an FBI Criminal Background Check. An applicant convicted of any of the "prohibitive offenses" contained in the Older Adult Protective Services Act or an applicant convicted of any type of 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.
13. Attend the information/orientation session 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 the clinical portion of the Nursing Program.
- II. For progression and graduation, student must earn a "C" or higher in each of the courses in the Nursing program.
- III. Advanced Placement Process – Advanced Placement is for an LPN who is a graduate of any NLN accredited practical nursing program and who has been licensed and working for six months. Interested applications must make an appointment with the Assistant Director of the Nursing Program to review the following:
 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 any nursing course.
 3. The challenge to each nursing course will consist of a theory test and a skills test.
 4. Students enter the program at the appropriate level based upon their test results.
 5. Applicants who test out of a clinical nursing course are required to enroll in and successfully complete NUR 111 Transition to Nursing, prior to entering any clinical course.
 6. This process is based on the Pennsylvania Articulation Model.

Admissions Information

OCCUPATIONAL 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. Have completed, with a grade of "C" or higher, one course in algebra, biology and chemistry. 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 test and score into regular-entry English Composition (COM 121) and into Algebra II (MAT 030).
3. Complete the required foundation coursework and maintain a GPA of 2.5 or better. The prerequisite coursework is as follows:

ORI 102 College Success Strategies
COM 031 Basics of College Study Skills
*BIO 120 Biological Concepts
or BIO 150 Biology I
*CHE 120 Principles of Chemistry

* Students possessing a high school-level biology and/or chemistry course (with lab) with a "C" or better will satisfy this/these prerequisites.

NOTE:

All PN students must take the College's placement test and enroll in all relevant courses designed to meet minimum program prerequisites.

4. Show evidence of good mental, physical and dental health.
5. Submit evidence of required immunizations or antibody titres. Submit evidence of substance abuse testing.
6. Submit evidence of current CPR Certification for the Health Care 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.
10. 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 at 610.607.6226 or 610.372.4721, ext. 5441 or 3944.

Please note, a student may be readmitted only one 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 in the program. Math tutoring is made available.
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.

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 program.
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. Submit evidence 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 of 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 to 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 complete a written application for admission to Reading Area Community College. An online application may be used with the signature form printed from the web site and mailed to Reading Area Community College, International Admissions Office.
2. 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.
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), 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. Registration forms may also be obtained by writing, well in advance of the desired test date. (College institution code: 2743)

INTERNATIONAL CREDENTIAL EVALUATOR:

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

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.

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

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 I-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.

IMPORTANT EMAIL ADDRESSES:

U.S. Immigration
and Customs Enforcement
<http://www.ice.gov/>

The Test of English
As A Foreign Language (TOEFL)
<http://www.ets.org/toefl/>

APPLICATION DEADLINES

Fall Semester - June 1st

Spring Semester - September 1st

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 indicating 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 one readmission is permitted. For specific requirements, see individual programs.
4. Students seeking readmission are subject to the catalog under which they readmit.

Tuition and Fees



TUITION

Tuition for all students is charged on a per credit basis. Full-time students are those registered for twelve (12) or more credit hours of coursework per semester. Part-time students are those registered for less than twelve (12) credit hours of coursework per semester.

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

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

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

- 50% of your balance is due 45 days prior to the start date of the semester; 25% of your balance is due the first day of the semester; and 25% of your balance is due 30 days after the start date of the semester.

A \$15 deferred option fee is charged against all accounts with a balance still due after the last installment date has elapsed.

- Payment can be made by cash, check, money order, MasterCard, VISA or Discover. The student will be held responsible for all charges incurred at RACC.

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 or drop the course(s) online at www.racc.edu.

Once the first 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 elapsed.

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.

UNEMPLOYED POLICY

Students must be either (a) residents of Berks County at the time of layoff, or (b) affected by a Berks County business or industry plant closing or layoff. Students may enroll for a maximum of one semester on a tuition-free basis. Students enrolling in a non-credit course or program can receive a tuition waiver equivalent to the cost of 1 credit hour of instruction. 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.

SENIOR CITIZENS TUITION

Senior citizens from Berks County are eligible to take one course per semester in the credit division tuition-free. Courses may be audited or taken for credit.

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 citizen.

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.

FEES

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 the 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.

Credit By Examination: The cost of credit by institutional examinations is equivalent to 1 credit hour of instruction for either residents or non-residents.

Culinary Arts Program Laboratory Fee: A \$405 laboratory fee will be charged for both CUL 102 Basic Food Preparation and Safety and CUL 126 Food Preparation Theory.

Distance Learning@RACC Fee: A copyright fee of \$30 will be charged for each Distance Learning@RACC course.

Graduation Application Fee: A one time fee of \$40 will be charged to cover the cost of caps, gowns and diplomas.

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

Institutional/Activity Fee*: This fee supports the general operating budget related to facilities and functions, co-curricular activities, various special programs and some student-related operating costs. The fee is \$19 per credit hour.

*Tuition and fees are subject to change

2009-10 Tuition and Fees are located on the College's web site at www.racc.edu.



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 Assessment Fee: The fee covers the cost of standardized testing in the final clinical course of the Nursing Program.

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

Tech Prep Articulation Fee: A fee of \$22 per course will be charged for the awarding of credit for courses taken during high school that are identified in the Tech Prep Articulation Agreement.

Technology Fee*: The \$21 per credit technology fee is used to maintain existing services and to implement new technology initiatives.

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 Coordinator of Assessment and Articulation.

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 Assessment and Articulation.

*Fee subject to change.

ADDITIONAL COSTS

Students enrolled in all Health Professions Programs will incur additional costs for program requirements such as an annual physical examination, immunizations, 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 semester or officially withdraw from the College must complete the Change of Schedule Form which may be obtained from the Advising Center or drop course(s) online at www.racc.edu. **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.**

HEALTH PROFESSIONS SCHEDULE OF FEES 2009-2010

(Fees shown are those in effect at the time this Catalog was printed.)

<u>Program</u>	<u>Course</u>	<u>Course Title</u>	<u>Lab Fee</u>	<u>Malpractice Insurance Fee</u>	<u>Assessment Fee</u>
Nursing	NUR 100	Nursing I	\$405.00	\$23.00	
	NUR 150	Nursing II	\$405.00		
	NUR 200	Nursing III	\$405.00	\$23.00	
	NUR 250	Nursing IV	\$405.00		\$45.00
Practical Nursing	PNP 101	Practical Nursing I	\$405.00	\$23.00	
	PNP 102	Practical Nursing II	\$405.00		
	PNP 103	Practical Nursing III	\$405.00		\$45.00
Respiratory Care	RES 150	Respiratory Care I	\$405.00	\$23.00	
	RES 227	Respiratory Care II	\$405.00		
	RES 237	Respiratory Care III	\$405.00		
	RES 255	Respiratory Care IV	\$405.00	\$23.00	
	RES 265	Respiratory Care V	\$405.00		
Medical Laboratory Technician	MLT 120	Basic Immunology	\$405.00	\$23.00	
	MLT 211	Clinical Laboratory Techniques	\$405.00		
	MLT 222	Clinical Urinalysis	\$405.00	\$23.00	
	MLT 220	Clinical Hematology/Coagulation	\$405.00		

Honors Program

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 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 test
- 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, admission would be for a single course)

BENEFITS

Taking Honors courses at RACC offers many benefits:

- Academic challenge
- Personal enrichment
- Small classes with other academically motivated students
- More individual attention from instructors and faculty mentors
- A competitive edge when apply for jobs or transferring to four-year colleges and universities
- Honors designations on transcripts
- Special commendation as an Honors Graduate
- Increased opportunities for scholarships

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:

1. 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	Intercultural Communication
ANT 250	Magic, Myth & Ritual: The Anthropology of Religion
ANT 255	Interpreting Lives: Rites of Passage, Personal History, and 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 281	Leadership Development Studies

PSY 131	General Psychology
SOC 131	Sociology

For additional information, see individual course descriptions.

2. 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.

3. Independent Study

A student can earn one to four 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 Senior 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
2. Life Experience/Portfolio Assessment
3. Transfer Credit
4. CLEP Testing
5. Advanced Placement



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 program, 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.

CREDIT BY EXAMINATION

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 below.

CREDIT BY EXAMINATION COURSES

ACC	105	Financial Accounting
ACC	110	Managerial Accounting
BUS	100	Introduction to Business
BUS	110	Business Mathematics
COM	121	English Composition
IFT	100	Introduction to Information Technology
IFT	110	Microcomputer Applications
MAT	150	Foundations of Math
NET	100	Fundamentals of Networking
NUR	100	Nursing I
NUR	150	Nursing II
OFT	110	Keyboarding I
OFT	111	Keyboarding II
OFT	100	Personal Keyboarding
PNP	101	Practical Nursing I
PNP	102	Practical Nursing II
PRG	100	Introduction to Computer Programming
PRG	120	COBOL
PRG	130	RPG III
PRG	140	Visual Basic

PORTFOLIO DEVELOPMENT

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 have 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.

TRANSFER CREDIT

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 that offers the Associate or Baccalaureate Degree and is listed in the most recent edition of

REGENTS COLLEGE EXAMS

Regents College Examinations - (formerly ACT-PEP) Regents College Exams are administered at selected Sylvan Learning Centers.



Assessment/Articulation

CLEP TESTING

CLEP (College-Level Examination Program). CLEP tests are administered at Reading Area Community College. Students should 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 test 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.

MILITARY SERVICE

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.

ADVANCED PLACEMENT

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.

For Advanced Placement in the Nursing programs see the Admissions information.



CLEP GENERAL EXAMS:

<i>English Composition</i>	Not Accepted at RACC
<i>English Composition (with essay)</i>	Not Accepted at RACC
Humanities	HUM 293 Humanities Elective (3-6 credits)
College Math	MAT 030 Algebra I
Social Science/History	SOC 293/HIS 293 Social Science Elective (3-6 cr)
Natural Sciences	BIO 293/ENV 293 Science Elective (3-6 credits)

RACC AWARDS CREDIT FOR:
CLEP SUBJECT EXAMS:

<i>English Composition</i>	Not Accepted at RACC
American Government	POS 130 American Government
American History I: To 1877	HIS 110 History of the U. S. I
American History II: To Present	HIS 115 History of the U. S. II
Introduction to Educational Psychology	PSY 240 Educational Psychology
Introductory Psychology	PSY 130 General Psychology
Human Growth and Development	PSY 210 Child Psychology
Principles of Macroeconomics	BUS 200 Macroeconomics
Principles of Microeconomics	BUS 201 Microeconomics
Western Civilization I: Ancient to 1648	HIS 120 Western Civilization: To 1600
Western Civilization II: to Present	HIS 125 Western Civilization: 1600-1945
College French - Levels I and II	LAN 293, 294 Foreign Language (3-6 credits)
College German - Levels I and II	GER 101 and/or GER 102 German (3-6 credits)
College Spanish - Levels I and II	SPA 101 and/or SPA 102 Spanish (3-6 credits)
American Literature	HUM 241 American Literature I
	HUM 245 American Literature II
Analysis and Interpretation of Literature (No Essay)	HUM 293 Humanities Elective
<i>English Literature</i>	Not Accepted at RACC
<i>Freshman College Composition</i>	Not Accepted at RACC
Calculus	MAT 220 Calculus I
College Algebra	MAT 160 College Algebra
Biology	BIO 293 Science Elective (3-4 credits)
Chemistry	CHE 293 Science Elective (3-4 credits)
Principles of Management	MGT 100 Principles of Management
Introductory Business Law	BUS 230 Business Law
Principles of Marketing	BUS 220 Principles of Marketing
Pre-Calculus	MAT 180 Pre-Calculus

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.

DSST/CLEP:
RACC EQUIVALENT:

Environment and Humanity	ENV 130	The Environment
The Civil War and Reconstruction	HIS 219	The American Civil War
Principles of Statistics	MAT 210	Statistics
Fundamentals of College Algebra	MAT 110	Algebra II
Principles of Finance	ACC 210	Financial Management
Human Resource Management	MGT 200	Human Resources Management
Principles of Supervision	MGT 210	Supervisory Management
Introduction to Business	BUS 100	Introduction to Business
Personal Finance	ACC 100	Personal Finance
Business Math	BUS 110	Business Math
Criminal Justice	LAW 135	Introduction to Criminal Justice

Advising/Center for Academic Success

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
- Advising for students new to RACC
- Advising for Probation students
- Advising for Undecided students

NOTE: All other students must 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 Counseling Association.

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

TRANSFER CENTER SERVICES

A complete listing of all RACC articulation agreements by course and college/university is available at www.CollegeTransfer.net. Other services for students at this free site include Transfer Planning Guides and Course Equivalency maps.

The Pennsylvania Department of Education has created a seamless statewide transfer and articulation system that mandates that at least 30 hours of foundation courses be easily transferred between the commonwealth's 14 community and the 14 universities in the Pennsylvania State System of Higher Education (PASSHE).

Lackawanna College, Lincoln University, Seton Hill University and St. Francis University have joined PA TRAC. Students can access the Pennsylvania Transfer and Articulation Center at <http://www.patrac.org>.

- Course equivalences with various colleges/universities 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 your questions.
- Free materials to help with your search.
- Information about specific courses, curricula 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** - Courses 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 program 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 program 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 semesters of college work in their program 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.

Credits earned in an approved Cooperative Education Program may be substituted for up to three credit hours of coursework in the total program. 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 Career Center.

TUTORING SERVICES

TUTORING SERVICES

Free tutoring is provided for most basic skills and freshman-level (100) 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 qualified 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.

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.



Financial Aid

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. Over 50% of all students at RACC currently receive financial aid.

HOW TO APPLY

You must complete and submit the Free Application for Federal Student Aid (FAFSA) to apply for financial aid at Reading Area Community College. This application will be used to determine your eligibility for federal, state and Instructional sources of assistance. We recommend that you apply with FAFSA on the web at www.fafsa.ed.gov. In addition to the Federal web site, we recommend that you check RACC’s web site monthly at www.racc.edu. On the scholarship page, you will see applications for private sources.



ELIGIBILITY REQUIREMENTS

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 student loan 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 \$4800 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 \$8000 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.

Pennsylvania State Grant and Special Programs – Reading Area Community College participates in all of the State Grant and Special Programs available through Pennsylvania Higher Education Assistance Agency. The details all of the programs can be obtained at www.pheaa.org or www.aesuccess.org.

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 83 donor designated endowed scholarship funds. Over 500 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. 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



Other Services/Student Activities

BOOKSTORE

Students may purchase textbooks, other required reading materials, and classroom supplies from the bookstore.

EDUCATION LABORATORY CENTER

The Education Laboratory Center (ELC) serves Reading Area Community College as a laboratory setting for students enrolled in the Early Childhood Education, Special Education and Education Transfer programs while providing academic enrichment for the children of students, staff and faculty.

The lab is organized to:

- Provide an opportunity for RACC students to learn about young children and their families.
- Serve as a teaching laboratory to demonstrate developmentally sound early childhood education practices.
- Prepare individuals as teachers and administrators of programs for young children and their families.
- Serve as a research laboratory for undergraduate and graduate students and faculty interested in studying 6 months to 5-year-old children and their families.
- Offer young children a developmentally sound educational experience based on their needs and interests.

Licensing

The ELC is licensed by the Department of Public Welfare (DPW). The DPW sets the minimum requirements for the operation of an Early Childhood Program.

The ELC is accredited by the National Association for the Education of Young Children (NAEYC). This is the highest rating of quality in the nation that a childcare center can receive.

The ELC is a Keystone Stars "Star 4" facility. This is the highest rating of quality in the state of Pennsylvania that a childcare center can receive.

Hours of Operation

Monday - Thursday 7:30 a.m. to 5:00 pm.
Friday 7:30 a.m. to 4:30 pm.

Evening care*:

Monday - Thursday 5:00 p.m. to 9:00 p.m.
*Fall & Spring semesters only. Five (5) or more children must be registered for this service to operate.

Hours are subject to change during semester break and during the summer.

All children must be registered for a regular schedule each semester. Registration fees are paid upon enrollment and the summer session, and then yearly in August regardless of original starting date. Registration fees are non-refundable.

Emergency 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, SGA promotes civic responsibility and education. The Student Government Association functions under its own Constitution and the Student Bill of Rights and Responsibilities. SGA offers a discount card program that is free to credit students, staff and faculty.

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 Concert Choir and International 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 located in the Student Union Building, Room 110.

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.



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 Soccer 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. For more information contact the Foundation Office at 610.607.6239.

STUDENT PARKING SERVICES

Parking permits must be obtained within the first two weeks of the semester in the lobby of Penn Hall. Students may park on Lot B (South of Franklin Street), Lot E (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.

YOCUM LIBRARY

The Yocum Library building, which contains the Humanities Center and The Yocum Library, was opened in 1996. The library is located on floors two through four of The Yocum Library building. The Humanities Center, which contains classrooms and faculty offices, occupies the first floor of The Yocum Library building.

The Yocum Library schedule and hours of operation are on the library web site at www.racc.edu/library. During the academic year the library is open seven days per week including evening hours Mondays through Thursdays. The Academic Testing Center, which is located within The Yocum Library, maintains a different schedule and hours of operation. Information on the Academic Testing Center is available as a Quick Link on the RACC web site, www.racc.edu.

The Yocum Library includes a collection of approximately 65,000 books, films, music recordings, maps, art prints and posters. In addition to the physical collection, the library subscribes to many online databases which provide thousands of electronic or e-books, magazines, journals, newspapers, images, music recordings and primary research resources. RACC students, faculty and staff have access to these databases using passwords. Password lists are available through the library. Library circulation and reference

services are available on the second floor of The Yocum Library. The second floor also contains the children's books, reference books, foreign language resources, art prints, posters, maps and the feature film collections. The library's collection of print magazines, journals, and newspapers are found on the third floor, as well as most of the book collection. Special collections in The Yocum Library include the College Archives, the Wes Fisher Music Score Collection, the Schuylkill Navigation System Map Collection, a research comic book collection and the faculty reserves collection.

The Yocum Library is part of the Berks County Advanced Library Information Network (ALIN) Consortium which links a number of Berks County libraries together, including most of the public libraries. Because the libraries in the ALIN Consortium share the same integrated library software system and a county-wide delivery system, ALIN library patrons can easily locate and borrow items from any of the libraries in the ALIN System. Thus, RACC students have access to over a half-million items in the county-wide ALIN libraries collections. RACC students also have access to the online databases of the public libraries using the ALIN library card as a password. You can access the ALIN catalog as well as the collection of online databases via the Internet at www.racc.edu/library.



The library staff includes reference librarians and technology specialists to help patrons using the library for research. In addition, there is also a Distance Learning Librarian who serves as the contact staff member for students in RACC online, telecourse or Dual Enrollment courses. Library staff information, as well as information on library services for students, staff and faculty, appear on the library web site. The library staff provides customized instruction for RACC classes and also teaches library research courses.

The library publishes many guides to help library patrons 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 also publishes, in print and on the library web site, *The Yocum Library Column*, a newsletter offering articles about library events and resources, as well as reviews of books, films and Internet web sites.

If your information needs cannot be met through The Yocum Library or ALIN collections, the library staff has access to library databases 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/TDY telephone line and software), and group study rooms. Check the library web site or ask at the Circulation Desk about access to these services.



Academic Information

DISTANCE LEARNING@RACC

What is Distance Learning?

Distance Learning uses technology to allow students flexibility to complete all or some of the requirements for a course without coming onto the RACC campus. Distance Learning courses require the same prerequisites, cover the same material and require just as many hours of work as the same courses taught in a classroom on campus. There are two main types of credit distance learning courses now available through *Distance Learning@RACC* including:

- Online courses in which requirements are met through the use of the Internet and a learning management software system (LMS). Students must have access to a computer, access to the Internet, and some computer skills. Online credit courses are taught by a RACC faculty member. Required textbooks are available through the RACC bookstore.
- Telecourses in which requirements are met through the completion of assignments that are created by the telecourse faculty facilitator plus the viewing of recorded content that was professionally developed employing a core team of nationally recognized subject specialists. Students must have access to a DVD or VHS player. Orientations and review sessions are held on the RACC campus for telecourse students. Although attendance at telecourse orientations and review sessions on campus is not mandatory for students, it is strongly recommended. Orientation information is posted on the RACC web site under the Distance Learning section. Students taking a telecourse may be required to come to the RACC campus for testing. Required textbooks are available through the RACC bookstore. The telecourse recordings are borrowed from The Yocum Library of RACC.



Is Distance Learning@RACC right for me?

Distance Learning classes are flexible. Students can learn at times that are more convenient for them, although distance learning courses follow the same schedule (that is, start- and end- dates) as campus-based courses.

Students who tend to be most successful in distance learning courses are those individuals who have:

- **Motivation.** While some people need teachers to keep them motivated and on-task, successful distance learners are able to motivate themselves.
- **Time management skills.** Distance learning requires more self-discipline than traditional learning. Managing your commitments is critical to being a successful distance learner. Successful distance learners rarely procrastinate.
- **General study skills.** Having good reading comprehension, writing and exam taking skills are critical to success in the distance learning environment.
- **Technology skills.** Online courses require a computer with Internet access and some computer skills including mouse, keyboard, email, Windows, word processing and Internet skills. Telecourses only require a DVD or VHS player. Computers, VHS and DVD players are available in The Yocum Library of RACC if a student does not have access to such equipment elsewhere.

How do I sign up for Distance Learning@RACC courses?

Students register for Distance Learning courses as they would any other type of RACC course. First a student must be admitted to RACC through the Admissions process. After a student is admitted, he or she can register for Distance Learning courses by using WebAdvisor. When searching for Distance Learning courses on WebAdvisor, students use the "Search for Sections" link and then enter the semester or session at the top of the search screen and "Distance Learning" as the "Location" at the bottom of the search screen. The middle column of the course information page, "Meeting Information," lists which type of distance learning course it is—online or telecourse.

Whom can I contact about Distance Learning?

For more information contact Mary Ellen G. Heckman, Assistant Dean of Library Services and Learning Resources at 610.372.4721 ext 5061 or 800.626.1665 ext 5061.



WEB-ENHANCED COURSES

A web-enhanced course uses materials on a web site to supplement classroom instruction. It is not an online course. The student is expected to attend all scheduled class days and times. The College supports use of ANGEL 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.

ACADEMIC POLICIES & PROCEDURES

COURSE SELECTION

All new students plan their first semester 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 semester. Students may register for courses online using WebAdvisor, or may register in person. Students are strongly encouraged to 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 contact the Transfer Center in 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 the student missed more than 10% of the semester. 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 twelve (12) to fifteen (15) credit hours per semester. To be classified as full-time, students must carry a minimum of twelve (12) credit hours per semester. Students carrying more than eighteen (18) credit hours per semester must have the approval of their academic advisors and the Senior 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 twelve (12) 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 & SOPHOMORES 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. 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, contact the 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 program.

A decision to change programs 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 Program form. The new program becomes effective immediately upon receipt and processing of the Change of Program form and the student is assigned to current catalog program requirements.

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 Schedule Change form available in the Advising Center or Records Office. There are specific periods of time each semester 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 Senior Vice President of Academic Affairs/Provost.

ACADEMIC HONORS

Semester 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 semester.

The President's List includes the names of students who have earned twelve or more credit hours and who have a semester grade point average of 4.0.

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

Academic Information

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

TRANSCRIPTS

Transcripts may be obtained from the Records Office. Student transcripts are confidential and protected by the Family Educational 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 signed letter by mail. This signed letter must contain the student's name, current address, social security number, and the address to which the transcript should be sent. No facsimile will be generated for transcripts, verification letters or grade reports. A \$3.00 fee is charged for each transcript and must accompany any request. No transcript or official statement shall be issued to a student who either is financially indebted to the College or who has not fully satisfied College requirements.

STUDENT RECORDS

Reading Area Community College maintains two kinds of student records; the cumulative folder and the permanent transcript. All student records are maintained on a confidential basis as outlined in the Family Educational Rights and Privacy Act of 1974. Students can access these records by written request to the Registrar, who will respond within 45 days. Copies of the Privacy Act are available upon request in the Records Office, Berks Hall.

STUDENT RIGHT-TO-KNOW ACT

Public Law 101-542 requires colleges and universities to report the graduation/college transfer rates for new full-time students who enrolled during a specific Fall Term. Accordingly, the graduation and college transfer rate for new full-time students entering during the 2002 Fall Term was 30%. The Right-to-Know Act also permits institutions to publicize persistence (re-enrollment) rates for this same student group. Thus 37% of the entering 2003 Fall Term student group re-enrolled during the 2004 Fall Term.

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 Senior Vice President for Enrollment Management/Student Development or the Student Handbook.

THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

Reading Area Community College has adopted a policy to uphold the provisions of the Family Educational Rights and Privacy Act of 1974. This federal law guarantees the confidentiality of students' education records, establishes the right of students to inspect and review their records, and provides for the hearing of complaints pertaining to alleged, inaccurate or misleading information in the education records. In compliance with the Act, the College has prepared this policy statement to inform students of their rights under the Act and describe the procedures in effect for reviewing records and hearing complaints.

The College accords all rights under this law to eligible students attending the institution. An eligible student is defined as one who is eighteen years of age or is attending an institution of post-secondary education; in either event, the student receives less than half of his or her support from a parent or guardian. Education records maintained by the College will be treated confidentially. No person outside the College, including the parents of eligible students, will be permitted access to such records without the student's written consent. Nor will the College disclose any information from a student's education records unless authorized by a written request from the student. Records of such authorized disclosures will be maintained by the College and will list the parties who have requested and obtained access to student records as well as the legitimate reasons for gaining access. Records of disclosures may be inspected by students.

Under the law, education records can be released without the student's consent to certain individuals in specific circumstances. Such individuals include: officials of another educational institution in which the students seek enrollment; representatives of the federal, state, and local educational agencies which require the reporting and disclosure of information; officials who determine the eligibility for and amount of financial aid for students; organizations conducting studies for educational agencies or institutions to develop, validate, and administer predictive tests, to administer student aid programs, or to improve instruction; accrediting associations while carrying out their accrediting functions; persons who are complying with a judicial order or subpoena; and persons who would protect the health or safety of students and other individuals in an emergency.





Within the College itself, education records are accessible and may be disclosed without the student's written consent to other staff members who have legitimate educational interest in the students. Such staff members include personnel in the offices of Student Services, Financial Aid, Admissions, Veterans Services, Administrative Services, Cooperative Education, Career Services, Academic Affairs, and the appropriate individual faculty members.

The College may designate certain personal information from student education records as Directory Information and may disclose such information at its discretion. However, the College will not release such information for commercial use. Directory information consists of: the student's name, address, telephone number, date and place of birth, major field of study, participation of officially sanctioned activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and honors received, and the most previous school or college attended by the student. Students may request that any or all of this Directory Information be withheld by notifying the Senior Vice President for Enrollment Management/Student Development, in writing, within two (2) weeks after the first day of class in the fall semester. Requests for nondisclosure of Directory Information will be honored for one (1) academic year *only*, and must be filed annually at the Records Office.

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Besides guaranteeing the confidentiality of student records, this law also gives students the right to inspect and review their education records, challenge the contents of these records, have a hearing should the student find the outcome of the challenge unsatisfactory, and add explanatory materials to their records should the outcome of the hearing prove unacceptable. The Senior Vice President for Enrollment Management/Student Development at Reading Area Community College is in charge of coordinating the inspection and review procedures for student education records, which includes admissions, financial, academic, personal files, cooperative education, and placement records. Students who wish to review their records may do so by visiting the Records office and requesting to see their records file. The file will not be given to the student for review until the student provides his RACC ID card to a professional staff member in the Records Office or the Senior Vice President for Enrollment Management/Student Development. The file may not be removed from the office; the student must review all records in the office to determine if any documents need to be photocopied. Any copies the student requests must be paid for by the student at the prevailing rate of the campus copiers. Under no circumstances, can *any* document (original or otherwise), in the student's records file be given to the student.

Students *may not* inspect or make copies of: financial records and statements submitted by their parents; confidential letters of recommendations placed in the student's file prior to January 1, 1975; and transcripts or reproductions of a document that exists elsewhere in the original. Education records *do not* include: records of instructional, supervisory, and administrative personnel which are in the sole possession of the maker and are not accessible to any other individual, except one who serves as a temporary substitute for the original maker; records of a law enforcement unit; employment records (excluding work-study employment); alumni records; and student health records. However, health records may be reviewed by a physician of the student's choice. Also, in the case of records containing information on more than one student, an individual student will be permitted access *only* to that part of the record pertaining to the inquiring student.

After inspection of their records, students who feel that the information in their files is inaccurate, misleading, or violating their privacy or other rights may request that the

records be amended. Students should first discuss the problematic information with the Vice President for Enrollment Management/Student Services. Should their requests be upheld, then the appropriate records will be amended. If not, students will be advised within a reasonable time period that the records in question will not be amended and that they have the right to a formal hearing. Students must then request a formal hearing, in writing, from the Vice-President of Academic Affairs/Provost. Students will be informed of the date, place, and time of the hearing within a reasonable period of time, in advance, by the Academic Affairs Office. Students are guaranteed a full and fair opportunity to present evidence relevant to the issue at hand and may be assisted or represented by individuals of their own choosing, including an attorney, at their own expense. The hearing panel will be composed of disinterested and impartial College officials under the leadership of the Senior Vice President of Academic Affairs/Provost.

The decision of the hearing panel will be made within a reasonable period of time and will be based solely upon the evidence presented at the hearing. This decision will be in writing and will be circulated to the parties concerned. It will include a summary of the evidence and reasons leading to the decision. Should the decision favor the students, the education records will be amended or corrected in compliance with the recommendations of the hearing panel. If the hearing panel finds the information to be neither inaccurate nor misleading, the students may place in their education records a statement commenting upon the information and explaining any reasons for disagreeing with the decision of the hearing panel. Any information placed by students in their files under these circumstances will be maintained as part of the student's records and will also be disclosed when the records in question are disclosed.



Academic Information

GRADING SYSTEM

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.

Letter Grade	GRADING SYSTEM Definition	Grade Points
A	Excellent Performance	4.0
A-		3.7
B+	Above Average Performance	3.3
B		3.0
B-		2.7
C+	Average Performance	2.3
C		2.0
CAUTION* Below Average – May Not Transfer; May Count Toward Graduation		
C-	Below Average Performance	1.7
D+	Minimal Performance	1.3
D		1.0
F	Failing Performance (1986-Present)	0.0
R	Failing Performance (1979-1986)	0.0

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 ninth week of a fifteen-week semester 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 <u>documented</u> and approved by the faculty member of the course (or Division Chair if the faculty member is unavailable, or the Senior Vice President of Academic Affairs/Provost 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)
AP	Recognition of credits for Advanced Placement (1993-Present).
NE	Recognition of credits for CLEP/ACT-PEP national exams (1993-Present).
CA	Recognition of credits for Credit by Articulation (1993-Present).

LETTER INDICATOR	DEFINITION
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 semester immediately following the semester in which the grade was given. A request for review for Spring Semester grades must be made by the end of the Fall Semester, 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 recommendation of the Division Chair, the student has the right to request a review by the Academic Affairs Committee.
4. If not satisfied with the recommendation of the Academic Affairs Committee, the student has the right to request a review by the Senior 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, recommendation made through the above grade review process are advisory in nature.

Academic Progress Table

GPA Credit Hours	Suspension	Probation	Alert	Good Standing
1 - 10	- - - -	.00 - .99	1.00 - 1.99	2.00
11 - 20	.00 - .99	1.00 - 1.49	1.50 - 1.99	2.00
21 - 30	.00 - 1.49	1.50 - 1.74	1.75 - 1.99	2.00
31 and up	.00 - 1.74	1.75 - 1.99	< 2.00*	2.00

ACADEMIC PROBATION

Because the college is committed to the academic success of every student, the college will monitor a student's grades and issue an appropriate warning if grades are inadequate. Academic standing is determined by the standards for academic progress listed below. Eligibility to graduate with a certificate or degree requires a cumulative GPA of 2.0 in all course work applicable toward graduation. Courses with "F" grades do not count toward graduation, but are used in calculating the GPA.

Note: There are exceptions to this policy in some of the health care sciences programs which require a higher standard than 2.0.

ACADEMIC RECORD REVIEW COMMITTEE

This is a group that convenes at the close of each academic semester to consider the petitions of students placed on probation, suspension, or academic dismissal and the academic records of students who received "W," "F," or "I" grades in 40% or more of the coursework they have attempted. All petitions submitted for review by the Academic Records Review Committee should be addressed to the Associate Vice President of Academic Affairs.

ACADEMIC STATUS

1. Academic Alert

Students who fail to make satisfactory academic progress as defined by the Academic Progress Table will be placed on academic alert. Additionally, students who are exhibiting poor academic achievement by receiving an excess of "W," "F," or "I" grades may be placed on Academic Alert, as determined by the Academic Record Review Committee. Students placed on Academic Alert receive a letter from the Vice President of Academic Affairs/Provost informing them of their academic standing and suggesting the use of college services to improve academic performance.

2. Academic Probation

Students who fail to meet satisfactory academic progress as defined by the Academic Progress Table will be placed on Academic Probation. Additionally, students who are exhibiting poor academic achievement by receiving an excess of "W," "F," or "I" grades may be placed on Academic Probation, as determined by the Academic Record Review Committee. Students placed on Academic Probation receive a letter from the Vice President of Academic Affairs/Provost informing them of their academic standing and the requirements that must be met in order to register for the next semester.

3. Academic Suspension

Students who fail to make satisfactory progress as defined by the Academic Progress Table will be placed on academic suspension. Additionally, students who are exhibiting poor academic achievement by receiving an excess of "W," "F," or "I" grades may be placed on Academic Suspension as determined by the Academic Record Review Committee. Students placed on Academic Suspension receive a letter from the Vice President of Academic Affairs/Provost informing them of their academic standing. Students placed on Academic Suspension will be academically suspended from the college for a period of one semester (fall or spring). Students may appeal the suspension ruling by petitioning the Academic Record Review Committee. To return from suspension, students need to submit and observe a learning contract with the Coordinator of Advising for Academic Development and Special Populations.

continued ►

GRADE POINT AVERAGE (G.P.A.)

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

EXAMPLE

Course	Cr	Grade	Q.P.
ORI 102	2 x	(B+)	3.3 = 6.6
COM 121	3 x	(C)	= 6.0
SOC 125	3 x	(A-)	= 11.1
	8		23.7

$$23.7 \div 8 = \text{Semester G.P.A. } 2.96$$

ENV 121	3 x	(C)	2.0 = 6.0
COM 131	3 x	(B-)	= 8.1
	6		14.1

$$14.1 \div 6 = \text{Semester G.P.A. } 2.35$$

$$37.8 \div 14 = \text{Cumulative G.P.A. } 2.70$$

See Grading System on previous page.

Academic Information

4. Learning Contract

Students placed on Academic Suspension who wish to enroll after one semester (fall or spring) must contact the Coordinator of Advising for Academic Development and Special Populations to develop an academic contract for the upcoming semester. The contract may include part-time status, repeating failed courses, enrolling in a study skills course and other requirements deemed necessary for success. When finalized, the contract must be approved by the Coordinator of Advising for Academic Development and Special Populations. Students must successfully complete all credits attempted and achieve a semester grade point average of at least a 2.0 to continue enrollment at the College.

5. Academic Dismissal

Students who fail to make satisfactory academic progress as defined by the Academic Progress Table will be placed on academic dismissal. Additionally, students who did not achieve a semester GPA of at least 2.0 after the first semester following one semester of academic suspension will be placed on Academic Dismissal. Students placed on Academic Dismissal will receive a letter from the Vice President of Academic Affairs/Provost informing them of their academic standing and dismissal from the college.

6. Reinstatement

Students who have been academically dismissed may apply for reinstatement after one year, if they can demonstrate that the circumstances that contributed to their past poor academic performance have been eliminated or managed so as to promote academic success. To apply for reinstatement, the student must submit a completed Application for Reinstatement to the Chair of the Subcommittee on Reinstatement of the Academic Affairs Committee by the following dates:

July 15 - for Fall Semester reinstatement
November 15 - for Spring Semester reinstatement

The student is required to appear before the Subcommittee on Reinstatement of the Academic Affairs Committee to present the application and the changed circumstances. The student will be notified of the reinstatement hearing date one week after receipt of the completed application.

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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 Science Degree (A.S.), the Associate in Applied Science Degree (A.A.S.), the Associate in General Studies Degree (A.G.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 Science Degree

1. Successful completion (passing grades) of at least 60 credit hours of study (including the General Education Requirements for the 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 Applied Science Degree:

1. Successful completion (passing grades) of the required number of credit hours of study as listed in the given program (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

1. Satisfaction of all admission requirements and financial obligations to the College.
2. Completion of all testing and examinations required by the College.
3. Submission of the College's Application for Graduation by publicized institutional deadlines.





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.

GRADUATION PROCEDURES

Reading Area Community College certifies most degrees, certificates, and diplomas in May, August, or December 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 December graduation ceremony. Students who wish to receive their degrees, certificates, and/or diplomas in May, August, or December must submit a completed graduation application.

All program coursework must be completed prior to graduation; however, students will be permitted to participate in commencement exercises in May with up to 12 credits remaining provided:

1. The 12 credits remaining for the program requirements must be taken in the summer session following commencement.
2. Students must register for the remaining course(s) by the time of application for graduation.
3. A petition in writing must be submitted to the Senior Vice President for Enrollment Management/Student Development to participate in commencement exercises if not all program requirements have been met. A copy of the student's next semester 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.

INSTITUTIONAL CORE COMPETENCIES

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 program 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.

AWARENESS 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.

Academic Information

GENERAL EDUCATION REQUIREMENTS

GENERAL EDUCATION PHILOSOPHY

General Education at Reading Area Community College seeks to provide students with intellectual and critical skills needed to meet the challenges of a more complex and diversified world.

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 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 and Division Chair.

ASSOCIATE IN SCIENCE *Transfer Program*

Students pursuing the Science Transfer Program will earn the Associate in Science (A.S.) degree upon completion of all requirements. The program has 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 the A.S. degree are listed on the following pages. They are the mandatory courses that students complete in addition to their Electives. As noted in the previous paragraph, the variance of academic programs at other educational institutions make the selection of the Electives of paramount importance; therefore, it is recommended that students work closely with 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.S. program, deviations from the General Education Requirements are approved only for extenuating circumstances by the Faculty Advisor and Division Chair.

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 and Division Chair.

ASSOCIATE IN GENERAL STUDIES *Individualized Programs*

The Associate in General Studies (A.G.S.) degree is an individualized program 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 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.



GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE IN ARTS

Transfer Programs • 36 minimum credits

COMMUNICATIONS

COM 121 English Composition **or** COM 122

CREDITS - 6

COM 131 Composition & Literature **or** COM 132

HUMANITIES

Choose **TWO** from the following list:

ART 111 Introduction to Drawing
 ART 112 Drawing II
 ART 113 Design
 ART 121 Painting
 ART 201 Art Appreciation
 HUM 221 Music Appreciation
 HUM 231 World Literature I
 HUM 235 World Literature II
 HUM 241 American Literature I

CREDITS - 6

HUM 245 American Literature II
 HUM 249 Contemporary American Literature
 HUM 251 Introduction to Drama
 HUM 255 Shakespeare
 HUM 261 History of Film
 HUM 271 Introduction to Philosophy
 HUM 275 Ethics **or** HUM 276
 HUM 299 Seminar
 200 level Humanities Honors Elective

INFORMATION TECHNOLOGY

IFT 110 Microcomputer Applications*

CREDITS - 3

MATHEMATICS

Choose **ONE** from the following list:

MAT 150 Foundations of Mathematics
 MAT 160 College Algebra
 MAT 165 Trigonometry

CREDITS - 3 to 4

MAT 180 Precalculus
 MAT 210 Statistics
 MAT 220 Calculus I

NATURAL/PHYSICAL SCIENCES

ENV 130 The Environment **or** ENV 131
 AND choose **ONE** of the following four-credit, laboratory courses:

BIO 120 Biological Concepts
 BIO 150 Biology I
 BIO 155 Biology II
 BIO 210 Botany
 BIO 280 Microbiology

CREDITS - 7

CHE 120 Principles of Chemistry
 CHE 150 Chemistry I
 CHE 155 Chemistry II
 PHY 120 Principles of Physics
 PHY 240 Physics I
 PHY 245 Physics II

ORIENTATION

ORI 102 College Success Strategies** **or** ORI 101 (Course must be taken during first semester of enrollment.)

CREDITS - 2

SOCIAL SCIENCES

Choose **ONE** from the following list:

ANT 140 Cultural Anthropology
 POS 130 American Government
 PSY 130 General Psychology **or** PSY 131

CREDITS - 6

SOC 125 Individual & Society
 SOC 130 Sociology **or** SOC 131

AND choose **ONE** from the following list:

ANT 135 Human Evolution: Physical Anthropology & Archaeology
 ANT 140 Cultural Anthropology
 ECO 250 Comparative Economic Systems
 BUS 200 Macroeconomics
 BUS 201 Microeconomics
 HIS 110 History of the United States to 1877
 HIS 115 History of the United States Since 1865
 HIS 120 Western Civilization: To 1600
 HIS 125 Western Civilization: 1600-1945

HIS 130 Introduction to Contemporary History
 POS 130 American Government
 POS 135 State & Local Government
 PSY 120 Interpersonal Relations
 PSY 130 General Psychology
 SOC 125 Individual & Society
 SOC 130 Sociology
 Social Sciences Honors Elective

ELECTIVE

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

COM 151 Fundamentals of Speech **or** COM 152
 PSY 120 Interpersonal Relations & Communications

CREDITS - 3 to 4

HEA 110 Health
 - - - - - Foreign Language

A minimum of 60 credits is required to fulfill the graduation requirements for the Associate in Arts degree program. Please see your academic advisor one year 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.

* Students who feel that they can demonstrate that they have already mastered the competencies for this course should contact Janine Tiffany at jtiffany@racc.edu about credit by examination a semester before they are scheduled to take IFT 110.

** 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.

Academic Information

GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE IN SCIENCE

Transfer Program • 42 minimum credits

COMMUNICATIONS

COM 121 English Composition **or** COM 122

CREDITS - 6

and

COM 131 Composition & Literature **or** COM 132 **or**
COM 141 Technical Writing

HUMANITIES

Choose ONE from the following list:

ART 111 Introduction to Drawing
ART 112 Drawing II
ART 113 Design
ART 121 Painting
ART 201 Art Appreciation
HUM 221 Music Appreciation
HUM 231 World Literature I
HUM 235 World Literature II
HUM 241 American Literature I

CREDITS - 3

HUM 245 American Literature II
HUM 249 Contemporary American Literature
HUM 251 Introduction to Drama
HUM 255 Shakespeare
HUM 261 History of Film
HUM 271 Introduction to Philosophy
HUM 275 Ethics **or** HUM 276
200 level Humanities Honors Elective

INFORMATION TECHNOLOGY

IFT 110 Microcomputer Applications*

CREDITS - 3

MATHEMATICS

Choose TWO from the following list:

MAT 180 Precalculus**
MAT 210 Statistics

CREDITS - 6 to 8

MAT 220 Calculus I
MAT 221 Calculus II

NATURAL/PHYSICAL SCIENCES

ENV 130 The Environment **or** ENV 131

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

BIO 150 Biology I
CHE 150 Chemistry I
PHY 240 Physics I

CREDITS - 19

and

BIO 155 Biology II
CHE 155 Chemistry II
PHY 245 Physics II

and

SOCIAL SCIENCES

Choose ONE from the following list:

ANT 135 Human Evolution
ANT 140 Cultural Anthropology
ECO 250 Comparative Economic Systems
BUS 200 Macroeconomics
BUS 201 Microeconomics
HIS 110 History of the United States to 1877
HIS 115 History of the United States Since 1865
HIS 120 Western Civilization: To 1600

CREDITS - 3

HIS 125 Western Civilization: 1600-1945
HIS 130 Introduction to Contemporary History
POS 130 American Government
POS 135 State & Local Government
PSY 120 Interpersonal Relations
PSY 130 General Psychology **or** PSY 131
SOC 125 Individual & Society
SOC 130 Sociology **or** SOC 131

ORIENTATION

ORI 102 College Success Strategies*** **or** ORI 101 (Course must be taken during first semester of enrollment.)

CREDITS - 2

A minimum of 60 credits is required to fulfill the graduation requirements for the Associate in Science degree program. Please see your academic advisor one year prior to graduation to determine whether you meet the graduation requirements for your major.

* Students who feel that they can demonstrate that they have already mastered the competencies for this course should contact Janine Tiffany at tiffany@racc.edu about credit by examination a semester before they are scheduled to take IFT 110.

** MAT 160 and MAT 165 together may be used to fulfill the MAT 180 requirement.

*** 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 APPLIED SCIENCE

Career Programs • 23 minimum credits

COMMUNICATIONS

CREDITS - 6

COM 121 English Composition **or** COM 122
 AND one of the following as listed in the career program:
 BUS 106 Business Communications
 COM 131 Composition & Literature **or** COM 132
 COM 141 Technical Writing

HUMANITIES

CREDITS - 3

Choose ONE from the following list:

ART 111	Introduction to Drawing	HUM 245	American Literature II
ART 112	Drawing II	HUM 249	Contemporary American Literature
ART 113	Design	HUM 251	Introduction to Drama
ART 121	Painting	HUM 255	Shakespeare
ART 201	Art Appreciation	HUM 261	History of Film
HUM 221	Music Appreciation	HUM 271	Introduction to Philosophy
HUM 231	World Literature I	HUM 275	Ethics or HUM 276
HUM 235	World Literature II	HUM 299	Seminar
HUM 241	American Literature I	200 level	Humanities Honors Elective

INFORMATION TECHNOLOGY

CREDITS - 3

IFT 110 Microcomputer Applications*

MATHEMATICS

CREDITS - 3 to 4**

Select the specific course listed in the career program:

BUS 110 Business Mathematics
 MAT 110 Algebra II
 MAT 150 Foundations of Mathematics
 MAT 160 College Algebra
 MAT 180 Precalculus
 MAT 210 Statistics
 MTT 120 Machine Tool Mathematics I

NATURAL/PHYSICAL SCIENCES

CREDITS - 3***

BIO 120	Biological Concepts	ENV 130	The Environment or ENV 131
CHE 120	Principles of Chemistry	PHY 120	Principles of Physics

ORIENTATION

CREDITS - 2

ORI 102 College Success Strategies***** **or** ORI 101 (Course must be taken during first semester of enrollment.)

SOCIAL SCIENCES

CREDITS - 3*****

SOC 125 The Individual & Society **or** SOC 130 Sociology **or** PSY 130 General Psychology

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 one year prior to graduation to determine whether you meet the graduation requirements for your major.

* Students who feel that they can demonstrate that they have already mastered the competencies for this course should contact Janine Tiffany at jtiffany@racc.edu about credit by examination a semester before they are scheduled to take IFT 110.

** A higher level mathematics course may be substituted for the one listed in the program outline if approved by the Faculty Advisor.

*** Students majoring in Medical Laboratory, Nursing, or Respiratory Care fulfill this requisite with a four-credit, laboratory science 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.

***** Nursing students substitute sociology for this course.

Academic Information

GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE IN GENERAL STUDIES

Individualized Program • 26 minimum credits

COMMUNICATIONS

CREDITS - 6

COM 121 English Composition **or** COM 122
AND Choose *ONE* of the following courses:
BUS 106 Business Communications
COM 131 Composition & Literature **or** COM 132
COM 141 Technical Writing
COM 151 Fundamentals of Speech **or** COM 152

HUMANITIES

CREDITS - 3

Choose *ONE* from the following list:

ART 111	Introduction to Drawing	HUM 245	American Literature II
ART 112	Drawing II	HUM 249	Contemporary American Literature
ART 113	Design	HUM 251	Introduction to Drama
ART 121	Painting	HUM 255	Shakespeare
ART 201	Art Appreciation	HUM 261	History of Film
HUM 221	Music Appreciation	HUM 271	Introduction to Philosophy
HUM 231	World Literature I	HUM 275	Ethics or HUM 276
HUM 235	World Literature II	HUM 299	Seminar
HUM 241	American Literature I	200 level	Humanities Honors Elective

INFORMATION TECHNOLOGY

CREDITS - 3

IFT 110 Microcomputer Applications*

MATHEMATICS

CREDITS - 3 to 4

Choose *ONE* of the following courses:

BUS 110	Business Mathematics	MAT 165	Trigonometry
MAT 110	Algebra II	MAT 180	Precalculus
MAT 150	Foundations of Mathematics	MAT 210	Statistics
MAT 160	College Algebra	MAT 220	Calculus I

NATURAL/PHYSICAL SCIENCES

CREDITS - 3 to 4

Choose *ONE* of the following courses:

BIO 120	Biological Concepts	ENV 130	The Environment or ENV 131
BIO 150	Biology	ENV 150	The Visible Universe
CHE 120	Principles of Chemistry	PHY 120	Principles of Physics
CHE 150	Chemistry I	PHY 240	Physics I

ORIENTATION

CREDITS - 2

ORI 102 College Success Strategies** **or** ORI 101 (Course must be taken during first semester of enrollment.)

SOCIAL SCIENCES

CREDITS - 6

Choose *TWO* of the following courses:

ANT 135	Human Evolution: Physical Anthropology & Archaeology	HIS 130	Introduction to Contemporary History
ANT 140	Cultural Anthropology	POS 130	American Government
HIS 110	History of the United States to 1877	POS 135	State & Local Government
HIS 115	History of the United States Since 1865	PSY 120	Interpersonal Relations & Communication
HIS 120	Western Civilization: To 1600	PSY 130	General Psychology or PSY 131
HIS 125	Western Civilization: 1600-1945	SOC 125	The Individual & Society
		SOC 130	Sociology or SOC 131

ELECTIVE REQUIREMENTS

CREDITS - 34 to 36

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 one year prior to graduation to determine whether you meet the graduation requirements for your major.

* Students who feel that they can demonstrate that they have already mastered the competencies for this course should contact Janine Tiffany at jtiffany@racc.edu about credit by examination a semester before they are scheduled to take IFT 110.

**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.

Academic Information

Five academic divisions comprise 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 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
Computer Information Systems

ASSOCIATE IN APPLIED SCIENCE DEGREE

Career Programs

Accounting
Administrative Assistant
Business Management
Computer Technology
Culinary Arts
Executive Secretary
Legal Secretary
Medical Secretary
Web Site Development

CERTIFICATE OF SPECIALIZATION

College Credit Programs

Accounting
Basic Secretarial Skills
Bookkeeping/Accounting
Business Management
Culinary Arts (Certified Cook)
Legal Secretary
Medical Secretary
Web Site Development

Diploma Programs

Medical Transcriptionist

DIVISION OF HEALTH PROFESSIONS

Division Chair: Dr. Amelia Capotosta

Division Office: Penn Hall, Room 420

The Health Professions Division offers career preparation in a variety of programs. 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.)

HUMANITIES DIVISION

Division Chair: Dr. Karen Jacobson

Division Office: Yocum Library, Room 106

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

Academic Information

SCIENCE AND MATHEMATICS DIVISION

Division Chair: Diane Hollister**Division Office: Berks Hall, Room 402**

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 SCIENCE DEGREE**Transfer Program**

Science

ASSOCIATE IN APPLIED SCIENCE DEGREE**Career Programs**

Electric Utility Technology
Heating, Ventilation, Air Conditioning & Refrigeration
Machine Tool Technology
Mechatronics Engineering Technology
Nanoscience Technology
2+2+2 Millersville University Transfer Option
2+2+2 Penn State Berks Transfer Option

CERTIFICATE OF SPECIALIZATION**College Credit Programs**

Heating, Ventilation, Air Conditioning & Refrigeration
Nanoscience Technology

SOCIAL SCIENCES/HUMAN SERVICES DIVISION

Division Chair: Cynthia Seaman**Division Office - Berks Hall, Room 500**

The Social Sciences/Human Services Division offers programs for career preparation and transfer and courses that 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
Education
 Elementary Education Concentration
 Secondary Education Concentration
Pre-Law/Public Administration
Psychology
Social Work
Sociology/Anthropology

ASSOCIATE IN APPLIED SCIENCE DEGREE**Career Programs**

Early Childhood Education Teaching
Early Childhood Education Management
Educational Assistant/Paraeducator
Human Services Worker
Criminal Justice/Law Enforcement

CERTIFICATE OF SPECIALIZATION**College Credit Programs**

Early Childhood Childcare Professional
Early Childhood Director

Diploma Program

Early Childhood Diploma

Programs of Study

Academic Programs

PROGRAMS	AA (TRANSFER)	AS (TRANSFER)	AAS (CAREER)	CERTIFICATE	DIPLOMA	DIVISION	PAGE NUMBER
Accounting	X		X	X		Business	37
Addictions Studies	X					Social Science	39
Bookkeeping/Accounting					X	Business	41
Business Administration	X					Business	42
Business Management			X	X		Business	42
Communications	X					Humanities	44
Computer Information Systems	X					Business	45
Computer Technology			X			Business	46
Criminal Justice/Law Enforcement			X			Social Science	47
Culinary Arts			X	X		Business	48
Early Childhood Education Programs:							
Early Childhood Diploma					X	Social Science	50
Early Childhood Director				X		Social Science	50
Early Childhood Education Management			X			Social Science	52
Early Childhood Education Teaching			X			Social Science	53
Early Childhood Professional Childcare				X		Social Science	51
Education Transfer:							
Elementary Education	X					Social Science	54
Secondary Education	X					Social Science	55
Educational Assistant/Paraeducator			X			Social Science	56
Electric Utility Technology			X			Science*	57
Heating, Ventilation, AC, & Refrigeration			X	X		Science*	59
Human Services Worker			X			Social Science	61
Humanities	X					Humanities	62
Liberal Arts	X					Humanities	65
Machine Tool Technology			X			Science*	66
Mechatronics Engineering Technology			X			Science*	67
Medical Laboratory Technician			X			Health**	68
Nanoscience Technology			X	X		Science*	72
Nursing RN			X			Health**	74
Occupational Therapy Assistant			X			Health**	75
Office Technology Programs:							
Administrative Assistant			X			Business	40
Basic Secretarial Skills				X		Business	41
Executive Secretary			X			Business	58
Legal Secretary			X	X		Business	63
Medical Secretary			X	X		Business	69
Medical Transcriptionist					X	Business	71
Physical Therapy Assistant				X		Health**	76
Practical Nursing				X		Health**	77
Pre-Law/Public Administration	X					Social Science	78
Psychology	X					Social Science	79
Respiratory Care			X			Health**	80
Science Transfer		X				Science*	81
Social Work	X					Social Science	81
Sociology/Anthropology	X					Social Science	82
Web Site Development			X	X		Business	84

The College also offers an Associate in General Studies degree.

*Science and Mathematics Division

** Division of Health Professions

Accounting, Associate in Applied Science Degree

Business Division

The Accounting Program is designed to prepare students for a career in public accounting, in 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.

Program Competencies

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

- 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.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 64)

FALL SEMESTER I

ACC	105	Financial Accounting	3
BUS	100	Introduction to Business	3
BUS	110	Business Math	3
IFT	110	Microcomputer Applications	3
COM	121	English Composition	3
ORI	102	College Success Strategies	<u>2</u>
			17

FALL SEMESTER 2

ACC	205	Intermediate Accounting I	4
MGT	100	Principles of Management	3
BUS	200	Macroeconomics	
or			3
BUS	201	Microeconomics	
ENV	130	Environment	3
ACC	230	Federal Taxes	<u>3</u>
			16

SPRING SEMESTER I

ACC	110	Managerial Accounting	3
BUS	106	Business Communications	3
MAT	150	Foundations of Math	
or			3
MAT	210	Statistics	
ACC	220	Accounting Information Systems	4
HUM/ART		Humanities or Art Elective	<u>3</u>
			16

SPRING SEMESTER 2

ACC	206	Intermediate Accounting II	3
BUS	230	Business Law	3
BUS	---	Business Elective	3
SOC	125	Individual & Society	3
ACC	---	Program Elective	<u>3</u>
			15

Accounting, Associate in Arts Degree

Business Division

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

Program Competencies

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.
- Transfer to an accredited college or university.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 63)

See General Education Requirements	36	Major Requirements		Suggested Electives	12
		ACC 105 Financial Accounting	3	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.	
		BUS 100 Introduction to Business	3		
		BUS 200 Macroeconomics	3		
		BUS 201 Microeconomics	3		
		ACC --- Accounting Program Elective	3		
			15		

Accounting, College Credit Certificate

Business Division

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.

Course Competencies

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

- 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.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 33)

Major Requirements				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 semester in which these courses are offered.	
ACC 105	Financial Accounting	3	ACC 230 Federal Taxes		3
ACC 110	Managerial Accounting	3	ACC 235 Auditing		3
ACC 205	Intermediate Accounting I	4	BUS 230 Business Law		3
ACC 206	Intermediate Accounting II	3	IFT 110 Microcomputer Applications		3
ACC 220	Accounting Information Systems	4	--- --- Business/Program Elective		3

Addictions Studies, Associate in Arts Degree

Social Sciences/Human Services Division

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

Program Competencies

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 individuals.
- 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.

REQUIRED PROGRAM OF STUDY (Total Credits = 63)

See General Education Requirements	36	Major Requirements		Suggested Electives	12
		SOC 225 Drugs & Alcohol in American Society	3	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.	
		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	<u>3</u>		
			15		

SUGGESTED ELECTIVES

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

Administrative Assistant, Associate in Applied Science Degree

Business Division

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.

Program Competencies

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 fundamental 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.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 68)

<u>FIRST YEAR</u>				<u>SECOND YEAR</u>			
FALL SEMESTER 1				FALL SEMESTER 2			
BUS	105	Business English	3	BUS	200	Macroeconomics	3
BUS	110	Business Mathematics	3	OFT	213	Word Processing I	3
ORI	102	College Success Strategies	2	MGT	215	Human Relations in Business	3
BUS	100	Introduction to Business	3	OFT	210	Speedwriting I	3
ENV	120	The Environment	3	ACC	110	Managerial Accounting	<u>3</u>
COM	121	English Composition	<u>3</u>				15
			17				
SPRING SEMESTER 1				SPRING SEMESTER 2			
ACC	105	Financial Accounting	3	MGT	140	Administrative Office Management	3
HUM/ART		Humanities or Art Elective	3	OFT	214	Word Processing II	3
MGT	100	Principles of Management	3	BUS	201	Microeconomics	3
OFT	120	Machine Dictation and Transcription	3	BUS	220	Principles of Marketing	3
BUS	106	Business Communications	3	SOC	125	The Individual and Society	3
IFT	110	Microcomputer Applications	<u>3</u>	BUS	230	Business Law	<u>3</u>
			18				18

Basic Secretarial Skills, College Credit Certificate

Business Division

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 coursework to an Associate in Applied Science degree, if desired.

Program Competencies

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.
- 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.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 35)

FALL SEMESTER

BUS	105	Business English	3
BUS	110	Business Mathematics	3
OFT	110	Keyboarding I	3
COM	121	English Composition	3
OFT	210	Speedwriting I	3
ORI	102	College Success Strategies	<u>2</u>
			17

SPRING SEMESTER

IFT	110	Microcomputer Applications	3
OFT	111	Keyboarding II	3
OFT	120	Machine Dictation and Transcription	3
MGT	215	Human Relations in Business	3
OFT	211	Speedwriting II	3
BUS	106	Business Communications	<u>3</u>
			18

Bookkeeping/Accounting, College Credit Certificate

Business Division

The Bookkeeping/Accounting Certificate Program is designed for students who would like to work in the area of accounting as accounts receivable, accounts payable, payroll or billing clerks or as bookkeepers for small businesses. All coursework may later be applied to an Associate in Applied Science degree, if the student desires.

Program Competencies

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 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.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 31)

FALL SEMESTER I

ACC	105	Financial Accounting	3
BUS	100	Introduction to Business	3
BUS	110	Business Math	3
IFT	110	Microcomputer Applications	3
COM	121	English Composition	3
ORI	102	College Success Strategies	<u>2</u>
			17

SPRING SEMESTER I

ACC	110	Managerial Accounting	3
BUS	106	Business Communication	3
ACC	120	Payroll Accounting	1
ACC	220	Accounting Information Systems	4
MGT	100	Principles of Management	<u>3</u>
			14

Business Administration, Associate in Arts Degree

Business Division

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

Program Competencies

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.
- Transfer to an accredited college or university.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 63)

See General Education Requirements	36	Major Requirements		Suggested Electives	12
		ACC 105 Financial Accounting	3	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.	
		BUS 100 Introduction to Business	3		
		BUS 200 Macroeconomics	3		
		BUS 201 Microeconomics	3		
		MGT 110 Principles of Management	<u>3</u>		
			15		

Business Management, College Credit Certificate

Business Division

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. Coursework may later be applied to an Associate in Applied Science degree if the student desires.

Program Competencies

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

- Utilize business management principles to analyze problems and make decisions.
- Apply human resource management principles to analyze problems and make decisions concerning human resources.
- Apply supervision skills.
- Utilize effective human relations skills in business situations.
- 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 or an organization using the fundamental elements of the marketing mix.
- Apply the law to recognize legal implications of business and personal transactions.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 38)

ACC 105 Financial Accounting	3	IFT 110 Microcomputer Applications	3
ACC 110 Managerial Accounting	3	MGT 100 Principles of Management	3
BUS 100 Introduction to Business	3	MGT 200 Human Resource Management	3
BUS 106 Business Communications	3	MGT 210 Supervisory Management	3
BUS 220 Principles of Marketing	3	MGT 215 Human Relations in Business	3
BUS 230 Business Law	3	ORI 102 College Success Strategies	<u>2</u>
COM 121 English Composition	3		38

Business Management, Associate in Applied Science Degree

Business Division

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, assistant managers, assistant buyers, sales representatives, entrepreneurs, supervisors, human resource employees, benefits coordinators, market researchers and management trainees in programs such as those operated by banks, retail establishments, and other business and industrial enterprises. Graduates will have had the opportunity to choose from a number of second-year courses to allow specialization.

Program Competencies

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

- Utilize business management principles to analyze problems and make decisions.
- Apply human resource management principles to analyze problems and make decisions concerning human resources.
- Apply supervision skills.
- Utilize effective human relations skills in business situations.
- Apply math operations to solve fundamental business problems.
- 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 or an organization using the fundamental elements of the marketing mix.
- Apply the law to recognize potential legal implications of business and personal transactions.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 68)

FIRST YEAR				SECOND YEAR			
FALL SEMESTER I				FALL SEMESTER 2			
BUS	100	Introduction to Business	3	ACC	110	Managerial Accounting	3
BUS	110	Business Mathematics	3	BUS	200	Macroeconomics	3
COM	121	English Composition	3	MGT	200	Human Resource Management	3
	or		3	MGT	215	Human Relations in Business	3
COM	122	English Composition (Honors)	3	---	---	Business Management Program Elective	<u>3</u>
ENV	130	The Environment	3				15
IFT	110	Microcomputer Applications	3	SPRING SEMESTER 2			
ORI	102	College Success Strategies	<u>2</u>	ACC	210	Financial Management	3
			17	BUS	201	Microeconomics	3
SPRING SEMESTER I				BUS	220	Principles of Marketing	3
ACC	105	Financial Accounting	3	BUS	230	Business Law	3
BUS	106	Business Communication	3	MGT	210	Supervisory Management	3
HUM/ART		Humanities or Art Elective	3	---	---	Business Management Program Elective	<u>3</u>
MAT	150	Foundations of Math	3				18
	or		3				
MAT	210	Statistics	3				
MGT	100	Principles of Management	3				
SOC	125	Individual & Society	<u>3</u>				
			18				

BUSINESS MANAGEMENT PROGRAM ELECTIVES

ACC	230	Federal Taxes	3	MGT	250	Operations Management	3
BUS	210	Principles of Sales	3	MGT	290	Cooperative Education I	3
BUS	240	International Business	3	MGT	291	Cooperative Education II	3
MGT	230	Small Business Management	3				

Your advisor may suggest and must approve other electives.

Communications, Associate in Arts Degree

Humanities Division

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.

Program Competencies

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

- Communicate clearly, correctly, and ethically in writing and speaking.
- Demonstrate strategies of ethical listening and critical reading.
- Use rhetorical principles to adapt content, style, and tone to address a variety of audiences and purposes.
- Assess the functions and effects of the mass media.
- Evaluate, integrate, and document ideas and words from sources in writing and speaking.
- Transfer to an accredited college or university.

REQUIRED PROGRAM OF STUDY (Total Credits = 60)

See General Education Requirements	33	Major Requirements		Suggested Electives	12
		COM 151	Fundamentals of Speech	3	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.
		COM 161	Mass Media	3	
		COM 163	Writing for the Media	3	
		COM 201	Introduction to Editing	3	
		COM 141	Technical Writing	3	
			OR	3	
		BUS 106	Business Communications	15	

ADDITIONAL REQUIREMENTS

Additional courses recommended for the Communications Transfer major include:

- COM 211 Poetry Writing
- COM 215 Creative Nonfiction

Computer Information Systems, Associate in Arts Degree

Business Division

The Computer Information Systems Transfer Program is designed to prepare students to enter baccalaureate programs in Computer Information Systems on the junior level.

Program Competencies

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

- Describe the hardware and software needs in a modern business environment using appropriate computer terminology.
- Discuss the issues of professional standards and ethics for information technology workers.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.
- Plan and design web sites using fundamental web design principles.
- Create programs that solve common business problems using structured programming and modular design.
- Perform installation, configuration, diagnostics, preventive maintenance and basic networking of personal computers.
- 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.

REQUIRED PROGRAM OF STUDY (Total Credits = 60)

See General Education Requirements	36	<u>Computer Technology Electives</u>	<u>BUSINESS REQUIREMENTS</u>
		IFT 100 Introduction to Information Technology	ACC 105 Financial Accounting 3
		NET 100 Computer Networking	BUS 100 Introduction to Business 3
		PRG 100 Introduction to Computer Programming	BUS 200 Macroeconomics 3
		PRG 260 Database Systems	or
		WEB 100 Web Design I	BUS 201 Microeconomics 3
		<u>3</u>	<u>9</u>
		15	

Computer Technology, Associate in Applied Science Degree

Business Division

The Computer Technology Program is designed to prepare graduates for employment in information technology support positions. Students will gain experience in supporting others in the use of computer hardware, software, networks and web sites. Coursework will aid students in preparing to sit for various industry-standard certification exams. **College credit may be granted through Tech Prep articulation agreements between RACC and approved secondary schools.**

Program Competencies

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

- Describe the hardware and software needs in a modern business environment using appropriate computer terminology.
- Discuss the issues of professional standards and ethics for Information Technology workers.
- Utilize a personal computer to prepare documents using word processing, spreadsheet, database, and presentation software and to perform basic navigation of the Internet.
- Plan and design web sites using fundamental web design principles.
- Create programs that solve common business problems using structured programming and modular design.
- Demonstrate effective customer support and problem resolution skills.
- 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.
- Perform installation, configuration, diagnostics, preventative maintenance and basic networking of personal computers.
- Troubleshoot desktop environments that are running Microsoft Windows operating systems.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 68)

FIRST YEAR				SECOND YEAR			
FALL SEMESTER 1				FALL SEMESTER 2			
BUS	100	Introduction to Business	3	HUM/ART		Humanities or Art Elective	3
COM	121	English Composition	3	MGT	215	Human Relations in Business	3
IFT	100	Introduction to Information Technology	3	NET	120	Server Administration (Windows)	3
IFT	110	Microcomputer Applications	3	NET	125	Installation & Maintenance of PC Hardware	3
ORI	102	College Success Strategies	2	PRG	100	Introduction to Programming	3
WEB	100	Web Design I (HTML)	<u>3</u>	-----	-----	Computer Tech Elective	<u>3</u>
			17				18
SPRING SEMESTER 1				SPRING SEMESTER 2			
BUS	106	Business Communications	3	ACC	105	Financial Accounting	3
IFT	120	Advanced Microcomputer Applications	3	ENV	130	The Environment	3
MAT	150	Foundations of Math	3	IFT	210	Help Desk Customer Support	3
NET	100	Computer Networking	3	PRG	260	Database Systems	3
NET	105	Installation & Maintenance of PC Operating Systems	3	-----	-----	Computer Tech Elective	<u>3</u>
SOC	125	Individual and Society	<u>3</u>				15
			18				

Criminal Justice/Law Enforcement, Associate in Applied Science Degree

Social Sciences/Human Services Division

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, corrections officer, youth detention officer, customs inspector, immigration detention officer, loss prevention investigator, private investigator and claims investigator.

Program Competencies

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 (Total Credits = 62)

FIRST YEAR				SECOND YEAR			
FALL SEMESTER I				FALL SEMESTER 2			
ORI	102	College Success Strategies	2	COM	141	Technical Writing	3
LAW	135	Introduction to Criminal Justice	3	MAT	150	Foundations of Math	3
COM	121	English Composition	3	ENV	130	Environment	3
IFT	110	Microcomputer Applications	3	LAW	230	Interviewing & Interrogation	3
LAW	140	Criminal Law	3	LAW	250	Criminal Investigation	3
SOC	125	The Individual and Society	3				15
		or	3	SPRING SEMESTER 2			
SOC	130	Sociology	17	LAW	180, LAW-270, or LAW-290		3
SPRING SEMESTER I				LAW	285	Juvenile & Domestic Law	3
LAW	185	Criminology	3	LAW	240	Law Enforcement Mgmt.	3
PSY	120	Interpersonal Relations	3	----	----	Elective	3
PSY	130	General Psychology	3	HUM/ART		Humanities or Art Elective	3
LAW	150	Legal Procedures	3				15
LAW	255	Law Enforcement & Community Relations	3				
			15				

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, Associate in Applied Science Degree

Business Division

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.

Program Competencies

Upon successful completion of this 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.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.
- 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 meringues.
- 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 (Total Credits = 62)

FIRST YEAR				SECOND YEAR			
FALL SEMESTER 1				FALL SEMESTER 2			
CUL	102	Basic Food Preparation and Safety	6	BUS	110	Business Math	3
COM	121	English Composition	3	CUL	201	Food Preparation Practicum	3
IFT	110	Microcomputer Applications	3	SOC	125	Individual and Society	3
ORI	102	College Success Strategies	<u>2</u>	CUL	240	Garde Manger	3
			14	MGT	100	Principles of Management	<u>3</u>
				15			
SPRING SEMESTER 1				SPRING SEMESTER 2			
CUL	126	Food Preparation Theory	6	CUL	220	Food Service Sanitation	2
HEA	119	Personal Nutrition	1	CUL	255	Advanced Food Preparation Practicum	3
BUS	100	Introduction to Business	3	HUM/ART		Humanities or Art Elective	3
BUS	106	Business Communications	<u>3</u>	MGT	215	Human Relations in Business	<u>3</u>
			13				11
SUMMER SESSION							
CUL	215	Breakfast Cookery	3				
CUL	235	Professional Baking	3				
ENV	130	The Environment	<u>3</u>				
			9				

ADDITIONAL INFORMATION

Students must be prepared to provide their own transportation to Berks Career & Technology Center in Oley for the first level courses. Students must provide 2 sets of uniforms, double-breasted jacket, black and white checkered pants, hats and closed-toe leather shoes. There is a laboratory fee for this course (\$250 per semester). There is a book fee of \$70.00 to BCTC.

Culinary Arts (Certified Cook), College Credit Certificate

Business Division

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.

Program Competencies

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

- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.
- 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 meringues.
- 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 (Total Credits = 38)

<u>FIRST YEAR</u>				<u>SECOND YEAR</u>			
FALL SEMESTER 1				FALL SEMESTER 2			
CUL	102	Basic Food Preparation and Safety	6	CUL	201	Food Preparation Practicum	3
IFT	110	Microcomputer Applications	3	CUL	240	Garde Manger	<u>3</u>
ORI	102	College Success Strategies	<u>2</u>				6
			11				
SPRING SEMESTER 1				SPRING SEMESTER 2			
CUL	126	Food Preparation Theory	6	CUL	220	Food Service Sanitation	2
HEA	119	Personal Nutrition	<u>1</u>	CUL	255	Advanced Food Preparation Practicum	3
			7	MGT	215	Human Relations in Business	<u>3</u>
							8
SUMMER SESSION							
CUL	215	Breakfast Cookery	3				
CUL	235	Professional Baking	<u>3</u>				
			6				

Early Childhood Diploma, Social Science Diploma

Social Sciences/Human Services Division

The Early Childhood Diploma is designed to provide fundamental course work for entry level employment as an aide in the early care and education field. It also serves as the educational component for the Child Development Associate Credential (CDA). The CDA is a national credential awarded through the Council for Early Childhood Professional Recognition. Credits in this program may be applied to the Professional Child Care Certificate and/or Early Childhood Teaching or Management Associate Degree Programs.

Program Competencies

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

- Establish and maintain a safe, healthy learning environment.
- Advance the physical and intellectual competence of young children.
- Support social and emotional development and provide positive guidance for young children.
- Establish positive and productive relationships with families.
- Ensure a well-run program that is responsive to participant needs.
- Maintain a commitment to professionalism.

REQUIRED PROGRAM OF STUDY (Total Credits = 17)

<u>FIRST YEAR</u>				<u>SECOND YEAR</u>			
FALL SEMESTER I				SPRING SEMESTER I			
ORI	102	College Success Strategies	2	ECE	261	Family & School Relations	3
ECE	115	Integrated Arts in Early Childhood Program	3	ECE	---	ECE Elective	3
ECE	105	The Early Childhood Professional	<u>3</u>	ECE	150	ECE Practicum I	<u>3</u>
			8				9

Early Childhood Director, College Credit Certificate

Social Sciences/Human Services Division

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 who have already earned a BA/BS or AA/AAS in other fields and wish to work as Early Childhood Directors.

Program Competencies

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 program 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 (Total Credits = 32)

<u>FIRST YEAR</u>				<u>SECOND YEAR</u>			
FALL SEMESTER I				SPRING SEMESTER I			
ORI	102	College Success Strategies	2	ECE	120	Observation & Assessment	3
ECE	115	Integrated Arts in Early Childhood Program	3	ECE	227	Infant & Toddler Care	3
ECE	105	The Early Childhood Professional	3	ECE	230	Child Care Administration	3
ECE	229	Child Care Management	3	ECE	261	Family & School Relations	3
ECE	240	School Age Child Care	<u>3</u>	SOC	120	Organizational Behavior	3
			14	ECE	290	Cooperative Education	<u>3</u>
							18

Early Childhood Professional Childcare, College Credit Certificate

Social Sciences/Human Services Division

This program is designed for individuals seeking employment as child care aides, family child care providers, nannies and pre-school 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.

Program Competencies

Upon successful completion of the 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 program 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 (Total Credits = 32)

<u>FIRST YEAR</u>	<u>SECOND YEAR</u>
FALL SEMESTER I	SPRING SEMESTER I
ORI 102 College Success Strategies 2	ECE 120 Observation & Assessment 3
ECE 115 Integrated Arts in Early Childhood Program 3	ECE 261 Family & School Relations 3
ECE 105 The Early Childhood Professional 3	ECE ---- Early Childhood Elective 3
ECE 140 Health, Safety, Nutrition & Physical Education 3	ECE 150 Early Childhood Practicum I 3
COM 121 English Composition 3	PSY 120 Child Psychology <u>3</u>
PSY 130 General Psychology <u>3</u>	15
17	

Early Childhood Education Management,

Associate in Applied Science Degree

Social Sciences/Human Services Division

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 program may find it necessary to attend the summer sessions to fulfill their degree requirements within two years.

Program Competencies

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 program and child development to plan, adapt and implement a comprehensive program in early care and education settings.
- Apply knowledge of infant/toddler development including unique program needs to develop age appropriate program 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 (Total Credits = 68)

FIRST YEAR				SECOND YEAR			
FALL SEMESTER 1				FALL SEMESTER 2			
ORI	102	College Success Strategies	2	ECE	220	Curriculum Development & Instructional Materials	3
ECE	115	Integrated Arts in Early Childhood Curriculum	3	ECE	229	Child Care Management	3
ECE	105	The Early Childhood Professional	3	ECE	240	School Age Child Care	3
SOC	125	Individual & Society	3	MAT	150	Foundations of Math	3
COM	121	English Composition	3	SPE	100	Introduction Special Education	3
PSY	130	General Psychology	<u>3</u>	ENV	130	Environment	<u>3</u>
			17				18
SPRING SEMESTER 1				SPRING SEMESTER 2			
ECE	120	Observation & Assessment	3	ECE	260	Early Childhood Practicum	3
ECE	227	Infant & Toddler Care	3	ECE	261	Family & School Relations	3
COM	141	Technical Writing	3	ECE	230	Child Care Administration	3
EDU	210	Planning & Instruction	3	SOC	120	Organizational Behavior	3
PSY	210	Child Psychology	3	HUM/ART		Humanities or Art Elective	<u>3</u>
IFT	110	Microcomputer Applications	<u>3</u>				15
			18				

Early Childhood Education Teaching,

Associate in Applied Science Degree

Social Sciences/Human Services Division

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 program may find it necessary to attend the summer sessions to fulfill their degree requirements within two years.

Program Competencies

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 program and child development to plan, adapt, and implement a comprehensive program in early care and education settings.
- Apply knowledge of infant/toddler development including the unique program needs to develop age appropriate program 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 (Total Credits = 65)

FIRST YEAR				SECOND YEAR			
FALL SEMESTER 1				FALL SEMESTER 2			
ORI	102	College Success Strategies	2	ECE	220	Curriculum Development & Instructional Materials	3
ECE	115	Integrated Arts in Early Childhood Curriculum	3	ECE	222	Emerging Literacy & Language Arts	3
ECE	140	Health, Safety, Nutrition & Physical Education	3	SPE	100	Introduction Special Education	3
ECE	125	Introduction to Early Childhood Education	3	PSY	210	Child Psychology	3
COM	121	English Composition	3	COM	151	Fundamentals of Speech	3
SOC	125	Individual & Society	3	or			3
			<u>17</u>	ECE	229	Child Care Management	<u>15</u>
SPRING SEMESTER 1				SPRING SEMESTER 2			
ECE	120	Observation & Assessment	3	ECE	260	EC Practicum	3
MAT	150	Foundations of Math	3	ECE	261	Family & School Relations	3
EDU	210	Planning & Instruction	3	ENV	130	Environment	3
PSY	130	General Psychology	3	ECE	----	ECE Elective	3
COM	131	Composition and Literature	3	HUM/ART		Humanities or Art Elective	<u>3</u>
or			3				15
COM	141	Technical Writing	3				
IFT	110	Microcomputer Applications	<u>3</u>				
			18				

Education Transfer, Associate in Arts Degree

Social Sciences/Human Services Division

This program is designed to prepare the student to enter a baccalaureate program in Elementary Education/Secondary Education on the junior level. Most four-year education programs require that students be accepted for candidacy before they take any courses in the education department. The requirement for candidacy is approximately 45-48 credits. It is the responsibility of students to check with the receiving (transfer) institution and with their faculty advisor to identify the requirements for the receiving institution.

Most institutions, however, have similar requirements. In order to be eligible for candidacy most schools require the following:

- A grade of "C" or better in the following general education requirements:
 - Six credits of English Composition (COM 121, COM 131)
 - Six credits of Mathematics (MAT 150, MAT 155)
 - Three credits of Speech (COM 151)

Students must pass the Praxis I exam (information available at www.ets.org). Additionally, students must earn a minimum GPA (grade point average) of 3.0. These requirements should be completed as close as possible to the minimum 45 credits so that when students apply for candidacy at their receiving institution, they will be accepted immediately and will be eligible to register for the school's education courses.

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 child 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.

REQUIRED PROGRAM OF STUDY (Total Credits = 63)

See General Education Requirements	36	Major Requirements	12	Suggested Electives	15
		EDU 130 Foundations of Education	3	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.	
		SPE 100 Introduction to Special Education	3		
		COM 151 Fundamentals of Speech	3		
		PSY 210 Child Psychology	3		
		PSY 240 Educational Psychology	3		
			15		

SUGGESTED ELECTIVES

ECE 115*	GEO 101	MAT 155	SPE 210
ECE 120*	HIS 110	MAT 210	SPE 215
ECE 125*	HIS 115	POS 135	SPE 205
ECE 140	HIS 219	PSY 120	SPE 225
ECE 220*	HIS 120	PSY 208	SOC 130
ECE 222*	HIS 125	SPA 101	

*A minimum of 15 ECE credits are needed if students are seeking work in child care centers licensed by the Department of Public Welfare. 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.

Social Sciences/Human Services Division

This program is designed to prepare the student to enter a baccalaureate program in Elementary Education/Secondary Education on the junior level. Most four-year education programs require that students be accepted for candidacy before they take any courses in the education department. The requirement for candidacy is approximately 45-48 credits. It is the responsibility of students to check with the receiving (transfer) institution and with their faculty advisor to identify the requirements for the receiving institution.

Most institutions, however, have similar requirements. In order to be eligible for candidacy most schools require the following:

- A grade of “C” or better in the following general education requirements:
 - Six credits of English Composition (COM 121, COM 131)
 - Six credits of Mathematics (MAT 150, MAT 155)
 - Three credits of Speech (COM 151)

Students must pass the Praxis I exam (information available at www.ets.org). Additionally, students must earn a minimum GPA (grade point average) of 3.0. These requirements should be completed as close as possible to the minimum 45 credits so that when students apply for candidacy at their receiving institution, they will be accepted immediately and will be eligible to register for the school's education courses.

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.
- Demonstrate effective communication skills in group and individual situations.
- Transfer to an accredited college or university in education.

REQUIRED PROGRAM OF STUDY (Total Credits = 63)

See General Education Requirements	36	Major Requirements		Suggested Electives	12
		EDU 130 Foundations of Education	3	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.	
		SPE 100 Introduction to Special Education	3		
		COM 151 Fundamentals of Speech	3		
		PSY 212 Adolescent Psychology	3		
		PSY 240 Educational Psychology	3		
			15		

SUGGESTED ELECTIVES

ANT 135	HIS 110	POS 135	SOC 220
ANT 140	HIS 115	PSY 208	SOC 225
COM 151	HIS 120	SOC 125	SOC 230
EDU 210	HIS 125	SOC 130	SPE 100
GEO 101	MAT 155	SOC 210	

Educational Assistant/Paraeducator, Associate in Applied Science Degree

Social Sciences/Human Services Division

The Applied Science in Educational Assistant/Paraeducator degree will prepare students for employment as paraeducators (assistants) in classrooms serving children of diverse needs, ages 5 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.

Program Competencies

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, lifestyles, 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 (Total Credits = 65)

FIRST YEAR				SECOND YEAR			
FALL SEMESTER 1				FALL SEMESTER 2			
ORI	102	College Success Strategies	2	ECE	222	Emerging Literacy & Language Arts	3
PSY	130	General Psychology	3	SPE	215	Assistive Technology	3
COM	121	English Composition	3	SPE	225	Accommodating Instructional Strategies for Diverse Learners	3
SOC	125	Individual & Society	3	PSY	240	Educational Psychology	3
ECE	125	Introduction to Early Childhood Education	3	HUM/ART		Humanities or Art Elective	3
		or					15
EDU	130	Foundations of Education	3	SPRING SEMESTER 2			
SPE	100	Introduction to Special Education	3	SPE	250	Practicum in Special Education	6
			17	SPE	210	Professional Paraeducator	3
SPRING SEMESTER 1				SPA	101	Spanish I	3
PSY	210	Child Psychology	3	IFT	110	Microcomputer Applications	3
		or		ENV	130	Environment	3
PSY	208	Development Across the Lifespan	3				18
COM	131	Composition and Literature	3				
		or					
COM	141	Technical Writing	3				
EDU	210	Planning & Instruction	3				
ECE	120	Observation & Assessment	3				
MAT	150	Foundations of Math	3				
			15				

Electric Utility Technology, Associate in Applied Science Degree

Science and Mathematics Division

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.

Program Competencies

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 (Total Credits = 68)

<u>FIRST YEAR</u>				<u>SECOND YEAR</u>			
FALL SEMESTER I				FALL SEMESTER 2			
EUT	100	Electric Utility Technology I *	6	EUT	130	Transformers, Power Generation & Distribution	4
COM	121	English Composition	3	EUT	200	Electric Utility Technology III *	6
MAT	110	Algebra II	3	HUM	275	Introduction to Ethics	3
ORI	102	College Success Strategies	2	PSY	120	Interpersonal Relations & Communications	<u>3</u>
IFT	110	Microcomputer Applications	<u>3</u>				16
			17				
SPRING SEMESTER I				SPRING SEMESTER 2			
EUT	120	Electric Utility Technology II *	6	EUT	210	Local and National Electric Codes	3
EUT	110	Electrical Systems & Control Wiring	4	EUT	220	Electric Utility Technology IV *	6
PHY	150	Applied Physics	4	ENV	130	The Environment	3
COM	141	Technical Writing	<u>3</u>	SOC	125	Individual and Society	<u>3</u>
			17				15
SUMMER SESSION							
EUT	290	Cooperative Education *	3				

* Indicates course is held at Met-Ed.

ADDITIONAL REQUIREMENTS

Students who declare their intended major to be Electric Utility Technology are not officially accepted into FirstEnergy's Power Systems Institute until the following requirements are completed:

1. Technical Evaluation
2. Background Check
3. Physical Capabilities Assessment
4. Climbing Course

Executive Secretary, Associate in Applied Science Degree

Business Division

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.**

Program Competencies

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, 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.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 65)

<u>FIRSTYEAR</u>				<u>SECONDYEAR</u>			
FALL SEMESTER I				FALL SEMESTER 2			
BUS	105	Business English	3	OFT	212	Office Procedures	3
ENV	130	The Environment	3	OFT	213	Word Processing I	3
OFT	110	Keyboarding I	3	MGT	215	Human Relations in Business	3
ORI	102	College Success Strategies	2	OFT	210	Speedwriting I	3
COM	121	English Composition	<u>3</u>	HUM/ART		Humanities or Art Elective	3
			14	IFT	110	Microcomputer Applications	<u>3</u>
				18			
SPRING SEMESTER I				SPRING SEMESTER 2			
BUS	110	Business Mathematics	3	OFT	220	Exec. Dictation and Transcription	3
MGT	140	Administrative Office Management	3	OFT	211	Speedwriting II	3
OFT	111	Keyboarding II	3	OFT	214	Word Processing II	3
OFT	120	Machine Dictation and Transcription	3	BUS	---	Business Elective	3
BUS	106	Business Communications	<u>3</u>	OFT	290	Cooperative Education I	3
			15	SOC	125	The Individual and Society	<u>3</u>
				18			

SUGGESTED ELECTIVES

The following courses qualify as a Business Elective: ACC 105, ACC 110, BUS 100, BUS 220, BUS 230, OFT 210, OFT 211.

Heating, Ventilation, Air Conditioning & Refrigeration,

Associate in Applied Science Degree

Science and Mathematics Division

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.**

Program Competencies

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 (Total Credits =67)

FIRST YEAR				SECOND YEAR				THIRD YEAR			
FALL SEMESTER I				FALL SEMESTER 2*				FALL SEMESTER 3*			
ORI 102	College Success Strategies	2		SOC 125	Individual & Society	3		HAC 205	HVAC Control Systems	3	
COM 121	English Composition	3		HAC 135	Residential and Light Commercial Air Conditioning Systems	3		HAC 206	HVAC Control Systems Lab	1	
HAC 105	Basic Refrigeration, Psychrometrics, and Thermodynamics	3		HAC 136	Residential and Light Commercial Air Conditioning Systems Lab	1		HAC 215	Unitary Systems	3	
HAC 106	Basic Refrigeration Lab	1		HAC 145	Fossil Fuel Systems and Alternative Fuels	3		HAC 216	Unitary Systems Lab	1	
MAT 150	Foundations of Mathematics	3		HAC 146	Fossil Fuel Systems and Alternative Fuels Lab	1		IFT 110	Microcomputer Applications	3	
		12								11	
SPRING SEMESTER 1*				SPRING SEMESTER 2				SPRING SEMESTER 3*			
COM 141	Technical Writing	3		BUS 100	Introduction to Business	3		HAC 225	Duct Design and Fabrication	3	
HAC 115	Basic Electricity and Electromagnetic Functions	3		HAC 155	Commercial Refrigeration	3		HAC 226	Duct Design and Fabrication Lab	1	
HAC 116	Basic Electricity and Electromagnetic Functions Lab	1		HAC 156	Commercial Refrigeration Lab	1		HAC 235	HVAC Codes and Regulations	3	
HAC 125	Electric Motors and Motor Control Systems	3		HAC 165	EPA Refrigerant Transition Certification Preparation	2		HUM/ART	Humanities or Art Elective	3	
HAC 126	Motor Controls and Motor Control Systems Lab	1		ENV 130	The Environment	3				10	
		11				12					

* These semesters have less than 12 credits and are therefore, not full-time status.

ADDITIONAL REQUIREMENTS

Students enrolling in daytime courses offered at the Berks Career & 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 & Refrigeration,

College Credit Certificate

Science and Mathematics Division

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.**

Program Competencies

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 (Total Credits =32)

FIRST YEAR				SECOND YEAR			
FALL SEMESTER I				FALL SEMESTER 2			
HAC	105	Basic Refrigeration, Psychrometrics, and Thermodynamics	3	HAC	135	Residential and Light Commercial Air Conditioning Systems	3
HAC	106	Basic Refrigeration Lab	1	HAC	136	Residential and Light Commercial Air Conditioning Systems Lab	1
MAT	150	Foundations of Mathematics	<u>3</u>	HAC	145	Fossil Fuel Systems and Alternative Fuels	3
			7	HAC	146	Fossil Fuel Systems and Alternative Fuels Lab	<u>1</u>
SPRING SEMESTER I				SPRING SEMESTER 2			
HAC	115	Basic Electricity and Electromagnetic Functions	3	HAC	155	Commercial Refrigeration	3
HAC	116	Basic Electricity and Electromagnetic Functions Lab	1	HAC	156	Commercial Refrigeration Lab	1
HAC	125	Electric Motors and Motor Control Systems	3	HAC	165	EPA Refrigerant Transition Certification Preparation	2
HAC	126	Motor Controls and Motor Control Systems Lab	<u>1</u>	ENV	130	The Environment	<u>3</u>
			8				9

ADDITIONAL REQUIREMENTS

Students enrolling in daytime courses offered at the Berks Career & 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 Services Worker, Associate in Applied Science Degree

Social Sciences/Human Services Division

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.

Program Competencies

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 (Total Credits = 60)

<u>FIRST YEAR</u>				<u>SECOND YEAR</u>			
FALL SEMESTER 1				FALL SEMESTER 2			
ORI	102	College Success Strategies	2	ENV	130	Environment	3
COM	121	English Composition	3	COM	151	Speech	3
HMS	110	Intro to Human Services	3	HMS	215	Human Service Practice I	3
SOC	125	The Individual and Society	3	PSY	234	Group Dynamics	3
		<i>or</i>	3	----	----	Elective (ANT,HMS,SOC,PSY)	<u>3</u>
SOC	130	Sociology					15
PSY	120	Interpersonal Relations	3	SPRING SEMESTER 2			
CAR	105	Professionalism on the Job	<u>1</u>	POS	135	State & Local Government	3
			15	HMS	250	Fieldwork	3
SPRING SEMESTER 1				HMS	216	Human Service Practice II	3
COM	141	Technical Writing	3	HUM/ART		Humanities or Art Elective	3
IFT	110	Microcomputer Applications	3	PSY	230	Abnormal Psychology	<u>3</u>
PSY	130	General Psychology	3				15
HMS	125	Human Service and the Law	3				
MAT	150	Foundations of Math	<u>3</u>				
			15				

Humanities Transfer, Associate in Arts Degree

Humanities Division

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.

Program Competencies

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.
- 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.
- Apply critical thinking, problem-solving and study strategies
- Employ appropriate methods of research by assessing and evaluating information from a variety of credible sources.
- Transfer to an accredited college or university.

REQUIRED PROGRAM OF STUDY (Total Credits = 63)

See General Education Requirements	36	Major Requirements		Suggested Electives	12
		ART 201 Art Appreciation		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.	
		or	3		
		HUM 221 Music Appreciation			
		HIS 120 Western Civilization to 1600 or	3		
		HIS 125 Western Civilization 1600-1945			
		HUM 271 Intro. to Philosophy	3		
		HUM - - Literature Electives (HUM 231, HUM 235, HUM 241, HUM 245, HUM 249, HUM 251, HUM 255)	<u>6</u>		
		Total Requirements	15		

Legal Secretary, Associate in Applied Science Degree

Business Division

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.**

Program Competencies

Upon successful completion of this program, the student 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, 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 readable copy.
- Recognize the changing nature of technology and adapt to new equipment and procedures while retaining the most appropriate traditional office practices.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 68)

FIRST YEAR				SECOND YEAR			
FALL SEMESTER I				FALL SEMESTER 2			
BUS	105	Business English	3	OFT	212	Office Procedures	3
ENV	130	The Environment	3	OFT	213	Word Processing I	3
OFT	110	Keyboarding I	3	MGT	215	Human Relations in Business	3
ORI	102	College Success Strategies	2	OFT	210	Speedwriting I	3
COM	121	English Composition	3	OFT	230	Legal Terminology & Transcription	3
IFT	110	Microcomputer Applications	3	SOC	125	The Individual and Society	
			17			or	
				SOC	130	Sociology	3
						or	
SPRING SEMESTER I				SPRING SEMESTER 2			
BUS	110	Business Mathematics	3	HUM/ART		Humanities or Art Elective	3
MGT	140	Administrative Office Management	3	OFT	211	Speedwriting II	3
OFT	111	Keyboarding II	3	OFT	231	Advanced Legal Transcription	3
OFT	120	Machine Dictation and Transcription	3	OFT	290	Cooperative Education I	3
BUS	106	Business Communications	3	OFT	214	Word Processing II	3
			15	BUS	230	Business Law	3
							18

SUGGESTED ELECTIVES

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

Business Division

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 coursework 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.

Program Competencies

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 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, telephone communications, incoming and outgoing mail, meetings and conferences, travel arrangements and simulated projects.
- Recognize the changing nature of technology and adapt to new equipment and procedures while retaining the most appropriate traditional office practices.
- Demonstrate a high level of accuracy in applying correct grammar, usage and style when transcribing legal documents from dictated audio tapes.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 35)

FALL SEMESTER				FIRST YEAR				SECOND YEAR				SPRING SEMESTER			
BUS	105	Business English	3	BUS	110	Business Mathematics	3	BUS	110	Business Mathematics	3	OFT	214	Word Processing II	3
OFT	212	Office Procedures	3	OFT	213	Word Processing I	3	OFT	214	Word Processing II	3	MGT	215	Human Relations in Business	3
OFT	213	Word Processing I	3	COM	121	English Composition	3	OFT	230	Business Law	3	OFT	231	Advanced Legal Transcription	3
COM	121	English Composition	3	OFT	230	Legal Terminology and Transcription	3	OFT	231	Advanced Legal Transcription	3	BUS	106	Business Communications	3
OFT	230	Legal Terminology and Transcription	3	ORI	102	College Success Strategies	2								18
ORI	102	College Success Strategies	2				17								

Liberal Arts Transfer, Associate in Arts Degree

Humanities Division

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

Program Competencies

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.
- Evaluate the ways in which the arts, history, economics, politics, social institutions, sciences and technologies shape societies.
- 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.

REQUIRED PROGRAM OF STUDY (Total Credits = 64)

See General Education Requirements	36	Elective Requirements	28	Suggested Electives	12
				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.	

Machine Tool Technology, Associate in Applied Science Degree

Science and Mathematics Division

The Machine Tool Technology Program 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.**

Program Competencies

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, semiprecision, precision layout and measuring tools.
- Operate the machine tools used in manufacturing according to National Institute Metalworking Skills (NIMS) Level I and selected NIMS Level 2 standards.
- Demonstrate proficiency in writing part programs, set-up 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 (Total Credits = 79)

Students are granted credit by articulation for the required Machine Tool Technology (MTT) courses after completion of the course competencies through courses offered by RACC's Workforce and Economic Development/Community Education Division in conjunction with the Berks Career & Technology Centers. Students should contact that division to obtain information on course offerings.

Students enrolling in daytime courses offered at the Berks Career & Technology Center must present a Criminal Background Check and Child Abuse Clearance prior to the first day of class.

Required MTT courses granted credit by articulation:

MTT 106	Engineering Graphics II	2
MTT 120	Machine Tool Mathematics I	3
MTT 125	Machine Tool Mathematics II	3
MTT 131	Engineering Graphics with Blueprint	3
MTT 135	Blueprint Reading II	3
MTT 140	Blueprint Reading III	3
MTT 151	Introduction to Metalworking	3
MTT 152	Basic Power Tools	2
MTT 156	Turning Technology	3
MTT 165	Machine Theory I	3
MTT 170	Machine Theory II	3
MTT 201	EDM Theory-Wire & Conversion	3
MTT 211	Milling Technology	3
MTT 221	Grinding Technology	3
MTT 240	Metrology	3
MTT 261	Basic CNC Programming Theory/Milling & Turning	3
MTT 265	CNC Fixture Design	2
MTT 271	Advanced CNC Milling	3
MTT 276	Advanced CNC Turning	3
MTT 281	MasterCAM Programming I & II	2
MTT 286	MasterCAM Programming III	2

In addition to the courses listed above, the following general education courses are required for completion of the AAS degree. These courses may be taken prior to, concurrent with, or following completion of the Machine Tool Technology competencies taught by the Workforce and Economic Development/Community Education division:

ORI 102	College Success Strategies	2
COM 121	English Composition	3
COM 141	Technical Writing	3
IFT 110	Microcomputer Applications	3
SOC 125	Individual and Society	3
PHY 150	Applied Physics	4
HUM/ART	Humanities or Art Elective	3

Mechatronics Engineering Technology

Associate in Applied Science Degree

Science and Mathematics Division

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.**

Program Competencies

Upon successful completion of this program, the students 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 (Total Credits = 70)

Students are granted credit by articulation for the required Mechatronics Engineering Technology (MET) courses after completion of the course competencies through courses offered by RACC's Workforce and Economic Development/Community Education Division. Students should contact that division to obtain information on course offerings.

Required MET courses granted credit by articulation:

MET	100	Introduction to Shop Machinery	1
MET	110	Manufacturing Fundamentals	3
MET	120	Industrial Mechanics I	3
MET	130	Industrial Electrical Systems	4
MET	140	Introduction to PLCs	4
MET	150	Industrial Mechanics II	4
MET	160	Rotating Electrical Machines	3
MET	200	Robotics & Motion Control	4
MET	210	Process Control & Instrumentation	3
MET	220	Advanced PLCs	4
MET	230	Integrated Manufacturing Systems	3
MET	240	Mechatronics Application Project	4

In addition to the courses listed, the following general education courses are required for completion of the AAS degree. These courses may be taken prior to, concurrent with, or following completion of the Mechatronics Engineering Technology competencies taught by the Workforce and Economic Development/Community Education division.

ORI	102	College Success Strategies	2
MAT	165	Trigonometry	3
PHY	150	Applied Physics	4
COM	121	English Composition	3
IFT	110	Microcomputer Applications	3
NET	125	Installation & Maintenance of PC Hardware	3
COM	141	Technical Writing	3
ENV	130	The Environment	3
SOC	125	The Individual & Society	3
HUM/ART		Humanities or Art Elective	3

Medical Laboratory Technician, Associate in Applied Science Degree

Division of Health Professions

This program 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 (5600 North River Road, Suite 720, Rosemont, IL 60018-5119). 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.

Program Competencies

Upon successful completion of this 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 professionals and the public.

PREREQUISITES

BIO	150	Biology I
MAT	110	Algebra II
ORI	102	College Success Strategies

REQUIRED PROGRAM OF STUDY (Total Credits = 66)

FALL SEMESTER I

COM	121	English Composition	3
BIO	250	Anatomy & Physiology I	4
CHE	110	Introduction to the Laboratory	1
CHE	150	Chemistry I	4
MAT	210	Statistics	<u>3</u>
			15

SPRING SEMESTER I

COM	131	or COM 141	3
BIO	255	Anatomy & Physiology II	4
MLT	120	Basic Immunology	2
CHE	220	Organic Chemistry	5
HEA	220	Clinical Implication of Laboratory Tests	<u>1</u>
			15

FALL SEMESTER 2

CHE	275	Instrumental Analysis	4
BIO	280	Microbiology	4
MLT	211	Clinical Laboratory Techniques	3
HUM/ART		Humanities or Art Elective	3
SOC	130 or PSY 130		<u>3</u>
			17

*INTERIM JANUARY SESSION

MLT	222	Clinical Urinalysis	1
MLT	233	Clinical Serology	<u>1</u>
			2

*SPRING SEMESTER 2

MLT	220	Clinical Hematology/Coagulation	5
MLT	231	Clinical Microbiology	4
MLT	221	Clinical Chemistry	4
MLT	230	Clinical Blood Bank	<u>4</u>
			17

*Interim Session and Spring Semester are full-time.

Medical Secretary, Associate in Applied Science Degree

Business Division

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.**

Program Competencies

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 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, 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 (Total Credits =68)

FIRST YEAR

FALL SEMESTER I

BUS 105	Business English	3
ENV 130	The Environment	3
OFT 110	Keyboarding I	3
ORI 102	College Success Strategies	2
COM 121	English Composition	<u>3</u>
		14

SPRING SEMESTER I

BUS 110	Business Mathematics	3
MGT 140	Administrative Office Management	3
OFT 111	Keyboarding II	3
OFT 120	Machine Dictation and Transcription	3
BUS 106	Business Communications	3
IFT 110	Microcomputer Applications	<u>3</u>
		18

SECOND YEAR

FALL SEMESTER 2

OFT 212	Office Procedures	3
OFT 213	Word Processing I	3
MGT 215	Human Relations in Business	3
OFT 210	Speedwriting I	3
SOC 125	The Individual and Society	3
OFT 240	Medical Terminology & Transcription	<u>3</u>
		18

SPRING SEMESTER 2

HUM ---	Humanities or Art Elective	3
OFT 211	Speedwriting II	3
OFT 241	Advanced Medical Transcription	3
OFT 290	Cooperative Education I	3
OFT 214	Word Processing II	3
OFT 243	Medical Coding	<u>3</u>
		18

Medical Secretary, College Credit Certificate

Business Division

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 coursework may later be applied to an Associate in Applied Science degree if the student desires. Prior secretarial experience is required for entry into this program.

Program Competencies

Upon successful completion of this program, the student 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, telephone communications, incoming and outgoing mail, meetings and conferences, travel arrangements and simulated projects.
- 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.
- 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 (Total Credits =32)

<u>FIRST YEAR</u>				<u>SECOND YEAR</u>			
<u>FALL SEMESTER</u>				<u>SPRING SEMESTER</u>			
BUS	105	Business English	3	BUS	110	Business Mathematics	3
OFT	212	Office Procedures	3	OFT	214	Word Processing II	3
OFT	213	Word Processing I	3	MGT	215	Human Relations in Business	3
COM	121	English Composition	3	OFT	241	Advanced Medical Transcription	3
OFT	240	Medical Terminology and Transcription	3	BUS	106	Business Communications	<u>3</u>
ORI	102	College Success Strategies	<u>2</u>				15
			17				

Business Division

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.

Program Competencies

Upon successful completion of this program, the student 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 (Total Credits =21)

FALL SEMESTER I

BUS	105	Business English	3
OFT	110	Keyboarding I	<u>3</u>
			6

SPRING SEMESTER I

OFT	111	Keyboarding II	3
OFT	120	Machine Dictation and Transcription	<u>3</u>
			6

SECOND YEAR

FALL SEMESTER 2

MGT	215	Human Relations in Business	3
OFT	240	Medical Terminology and Transcription	<u>3</u>
			6

SPRING SEMESTER 2

OFT	241	Advanced Medical Transcription	3
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Nanoscience Technology, Associate in Applied Science Degree

Science and Mathematics Division

This program, 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 aspects of biotechnology, automation, miniaturization, integration, optics, robotics and information systems.

Program Competencies

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

- Demonstrate effective oral communication and 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 (Total Credits =65)

FIRST YEAR				SECOND YEAR			
FALL SEMESTER I				FALL SEMESTER 2			
ORI	102	College Success Strategies	2	NSC	180	Electronics for Nanoscience	4
MAT	165	Trigonometry	3	NSC	200	Nanofabrication Seminar	1
IFT	110	Microcomputer Applications	3	BIO	150	Biology I	4
ENV	130	The Environment	3	COM	141	Technical Writing	3
CHE	150	Chemistry I	<u>4</u>	SOC	125	The Individual & Society	<u>3</u>
			15				15
SPRING SEMESTER I				SPRING SEMESTER 2 AT PENN STATE MAIN CAMPUS			
CHE	155	Chemistry II	4	NSC	211	Materials, Safety & Equipment	3
COM	121	English Composition	3	NSC	212	Basic Nanofabrication	3
MAT	210	Statistics	3	NSC	213	Thin Film in Nanofabrication	3
HUM	----	Humanities or Art Elective	3	NSC	214	Lithography for Nanofabrication	3
PHY	150	Applied Physics	<u>4</u>	NSC	215	Materials Modification	3
			17	NSC	216	Characterization, Packaging & Testing Of Nanofabricated Structures	<u>3</u>
							18

2+2+2 MILLERSVILLE UNIVERSITY TRANSFER OPTION

This program, 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 at your high school through the RACC Dual Enrollment or Head Start to College programs.

COM	121	English Composition*	3
MAT	210	Statistics*	3
MAT	220	Calculus I*	4
PSY	130	General Psychology*	<u>3</u>
			13

*Earned through your local high school or Head Start to College

FIRST YEAR

FALL SEMESTER I			
ORI	102	College Success Strategies	2
IFT	110	Microcomputer Applications	3
PHY	240	Physics I	4
CHE	150	Chemistry I	<u>4</u>
			13

SPRING SEMESTER I			
COM	141	Technical Writing	3
ENV	130	The Environment	3
CHE	155	Chemistry II	4
COM	151	Fundamentals of Speech	3
PHY	245	Physics II	<u>4</u>
			17

SECOND YEAR

FALL SEMESTER 2			
NSC	180	Electronics for Nanoscience	4
NSC	200	Nanofabrication Seminar	1
HUM/ART		Humanities or Art Elective	3
BIO	150	Biology I	4
SOC	125	The Individual & Society	<u>3</u>
			15

SPRING SEMESTER 2 AT PENN STATE MAIN CAMPUS			
NSC	211	Materials, Safety & Equipment	3
NSC	212	Basic Nanofabrication	3
NSC	213	Thin Film in Nanofabrication	3
NSC	214	Lithography for Nanofabrication	3
NSC	215	Materials Modification	3
NSC	216	Characterization, Packaging & Testing Of Nanofabricated Structures	<u>3</u>
			18

Total Credit Hours Required for the Program 76

This program 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 at your high school through the RACC Dual Enrollment or Head State to College programs.

COM 121	English Composition*	3
MAT 220	Calculus I*	4
MAT 210	Statistics	3
IFT 110	Microcomputer Applications*	3
Total Credits		<u>13</u>

*Earned through your local high school or Head Start to College

FIRST YEAR

FALL SEMESTER I		
ORI 102	College Success Strategies	2
PHYS 211	General Physics Mechanics***	4
CHE 150	Chemistry I	4
ENV 130	The Environment	3
SOC 125	The Individual & Society	3
		<u>16</u>

SPRING SEMESTER I

COM 141	Technical Writing	3
MAT 221	Calculus II	4
PHY 245	Physics II	4
CHE 155	Chemistry II	4
		<u>15</u>

SECOND YEAR

FALL SEMESTER 2

BIO 150	Biology I	4
NSC 180	Electronics for Nanoscience	4
NSC 200	Nanofabrication Seminar	1
HUM ---	Humanities or Art Elective	3
PHYS 212	General Physics Electricity & Magnetism***	4
		<u>16</u>

***PHYS 211/212 taken at PSU-Berks

SPRING SEMESTER 2 AT PENN STATE MAIN CAMPUS

NSC 211	Materials, Safety & Equipment	3
NSC 212	Basic Nanofabrication	3
NSC 213	Thin Film in Nanofabrication	3
NSC 214	Lithography for Nanofabrication	3
NSC 215	Materials Modification	3
NSC 216	Characterization, Packaging & Testing Of Nanofabricated Structures	3
		<u>18</u>

Total Credit Hours Required for the Program 78

Nanoscience Technology, College Credit Certificate

Science and Mathematics Division

This program, 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. **This program is designed for students who have already earned a college degree and wish to expand their education.**

Program Competencies

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 (Total Credits =21)

FIRST YEAR

FALL SEMESTER I		
MAT 165	Trigonometry	3
IFT 110	Microcomputer Applications	3
CHE 150	Chemistry I	4
		<u>10</u>

SPRING SEMESTER I		
CHE 155	Chemistry II	4
MAT 210	Statistics	3
PHY 150	Applied Physics	4
		<u>11</u>

SECOND YEAR

FALL SEMESTER 2		
NSC 180	Electronics for Nanoscience	4
NSC 200	Nanofabrication Seminar	1
BIO 150	Biology I	4
		<u>9</u>

SPRING SEMESTER 2 AT PENN STATE MAIN CAMPUS		
NSC 211	Materials, Safety & Equip.	3
NSC 212	Basic Nanofabrication	3
NSC 213	Thin Film in Nanofabrication	3
NSC 214	Lithography for Nanofabrication	3
NSC 215	Materials Modification	3
NSC 216	Characterization, Packaging & Testing Of Nanofabricated Structures	3
		<u>18</u>

CAREER PROGRAM

Nursing, Associate in Applied Science Degree

Division of Health Professions

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 program is approved by the State Board of Nursing of the Commonwealth of Pennsylvania and accredited by the National League for Nursing Accreditation Commission. For more information regarding the NLNAC, contact 61 Broadway, New York, NY, 10006 or 1.800.669.1656.

Program Competencies

Upon successful completion of this program, the student should be able 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 (Total Credits = 70)

PREREQUISITES TO NUR 100

ORI	102	College Success Strategies	2
BIO	250	Anatomy & Physiology I	<u>4</u>
			6

FIRST YEAR

FIRST SEMESTER

NUR	100	Nursing I	9
COM	121	English Composition	3
BIO	255	Anatomy & Physiology II **	<u>4</u>
			16

SECOND SEMESTER

NUR	150	Nursing II	9
PSY	130	General Psychology	3
BIO	280	Microbiology	<u>4</u>
			16

SECOND YEAR

THIRD SEMESTER

NUR	200	Nursing III	10
MAT	150	Foundations of Math*	3
COM	131	Composition and Literature or	
COM	141	Technical Writing	<u>3</u>
			16

FOURTH SEMESTER

NUR	250	Nursing IV	10
SOC	130	Sociology	3
HUM/ART		Humanities or Art Elective	<u>3</u>
			16

* May be replaced with another 100 level or higher math (MAT) course.

** This course fulfills the natural/physical sciences requirement.

*** The required placement test result for math is 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.

**** BIO 250: Anatomy & Physiology I and BIO 255: Anatomy & Physiology II must be completed within five years of application to the clinical portion of the Nursing Program.

Occupational Therapy Assistant, Associate in Applied Science Degree

Division of Health Professions

Reading Area Community College offers an Occupational Therapy Assistant Program in cooperation with Lehigh Carbon Community College. Students complete the general education requirements at Reading Area Community College and then complete the Physical Therapist Assistant clinical program at Lehigh Carbon Community College. After satisfactory completion of all program requirements, the student earns an Associate in Applied Science in Occupational Therapy Assistant from Lehigh Carbon Community College.

Graduates of this program are prepared for entry level employment as occupational therapy assistants, and are eligible to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

The Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. Phone: (301) 652-AOTA. The COTA functions under the direct or general supervision of an Occupational Therapist (OTR), in evaluating, planning and implementing programs to retrain or to develop the patient's performance in self-care, work and leisure skills. COTAs treat patients in mental health facilities, rehabilitation hospitals, school systems, hand clinics, nursing homes, and home health settings. AOTA requires that all OTA students complete their Level II Fieldwork within 18 months following completion of the academic preparation.

Program Competencies

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

- Provide all clients with safe care in a variety of health care settings.
- Provide the services expected of an entry-level occupational therapy assistant.
- Assist in management of delivery of occupational therapy as a member of the health care team in a variety of settings.
- Utilize the COTA/OTR supervision process and professional and educational resources to improve and increase knowledge and professional techniques to function effectively as a certified Occupational Therapy Assistant.
- Demonstrate a professional manner; abide by the policies and procedures of the facility and practice the ethics of the occupational therapy profession.
- Address the health needs of individuals, communities and society as a whole by assisting in community wellness and prevention programs.
- Utilize effective verbal and nonverbal communication skills to participate in the profession and society.
- Develop self-confidence and accountability to assume professional behaviors.
- Recognize education is a lifelong commitment to continued personal and professional development.
- Practice within the ethical parameters of the occupational therapy profession.
- Take an active role in student and professional organizations.
- Recognize individual differences and develop positive attitudes from this awareness.
- Demonstrate a holistic awareness of each individual and understand individual differences in adaptive responses.
- Adopt individualized learning when caring for individuals with diverse cultural, socioeconomic and environmental needs.
- Collaborate with client/patient and other health care providers to enhance occupational therapy service delivery.

REQUIRED PROGRAM OF STUDY (Total Credits = 64.5)

General Education Requirements at Reading Area Community College

FALL SEMESTER

BIO	250	Anatomy & Physiology I	4
COM	121	English Composition	3
PSY	130	General Psychology	3
			10

SPRING SEMESTER

BIO	255	Anatomy & Physiology II	4
COM	131	Composition & Literature	3
SOC	130	Sociology	3
			10

Clinical Education Requirements at Lehigh Carbon Community College

FALL SEMESTER

OTA	101	Introduction to Occupational Therapy	3
OTA	103	Therapeutic Media	3.5
PSY	145	Human Growth and Development	3
			9.5

SPRING SEMESTER

OTA	110	Intervention in Occupational Therapy	3.5
OTA	116	Principles of Treatment in Adult/Geriatric Rehabilitation	3.5
OTA	205	Medical Conditions	3
			9.5

FALL SEMESTER

OTA	211	Occupational Therapy in Mental Health	4
OTA	217	Principles of Treatment in Adult/Geriatric Rehabilitation	4
OTA	223	Therapeutic Adaptations/Techniques in Occupational Therapy	3
OTA	229	Supervision in Occupational Therapy	2
			13

SPRING SEMESTER

OTA	240	Fieldwork Experience	12
			44.5

Physical Therapy Assistant, Associate in Applied Science Degree

Division of Health Professions

Reading Area Community College offers a Physical Therapist Assistant Program in cooperation with Lehigh Carbon Community College. Students complete the general education requirements at Reading Area Community College and then complete the Physical Therapist Assistant clinical program at Lehigh Carbon Community College. After satisfactory completion of all program requirements, the student earns an Associate in Applied Science in Physical Therapist Assistant from Lehigh Carbon Community College.

The Physical Therapist Assistant (PTA) program is fully accredited under the commission on accreditation in Physical Therapy Education. This program will prepare the graduate to work under the supervision and direction of a licensed physical therapist in performing physical therapy treatments that include the following: therapeutic exercise, mechanical traction, massage, compression, heat, cold, sound, ultraviolet, water and electricity; instruction in activities of daily living (ADL); and the use and care of braces, prostheses and ambulation devices. The program includes clinical experience under the direction of a licensed physical therapist in area health facilities. Jobs for which graduates are expected to be qualified include physical therapist assistants in hospitals, extended health care facilities, rehabilitation hospitals, private physical therapy practices and children's centers.

Program Competencies

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

- Use therapeutic exercise, mechanical traction, therapeutic massage, compression, heat, cold, ultraviolet, water, electricity and ultrasound.
- Measure and adjust crutches, canes, walkers and wheelchairs, and instruction in their use and care.
- Instruct, motivate and assist patients and others in improving pulmonary function, learning and improving functional activities, such as pre-ambulation, transfer, ambulation, and daily living activities, and the use and care of orthoses, prostheses and supportive devices.
- Perform, without interpretation, of selected measurement procedures, such as range of joint motion, gross strength of muscle groups, length and girth of body parts and vital signs.
- Modify treatment procedures as indicated by patient response and within the limits specified in the plan of care, and reporting orally or in writing to the physical therapist.
- Communicate with members of physical therapy staff and other health team members, individually and in conference, to provide patient information.

REQUIRED PROGRAM OF STUDY (Total Credits = 62)

General Education Requirements at Reading Area Community College

FALL SEMESTER

BIO 250	Anatomy & Physiology I	4
COM 121	English Composition	3
PSY 130	General Psychology	<u>3</u>
		10

SPRING SEMESTER

BIO 255	Anatomy & Physiology II	4
COM 131	Composition & Literature	3
SOC 130	Sociology	3
	Elective (as advised)	<u>3</u>
		13

Clinical Education Requirements at Lehigh Carbon Community College

FALL SEMESTER

PTA 101	Introduction to Physical Therapy	3
PHY 103	Fundamentals of Physics	<u>4</u>
		7

SPRING SEMESTER

PTA 102	Applied Kinesiology	3.5
PTA 103	Physical Therapy Procedures I	3
PTA 201	Medical-Surgical Orientation to Therapy	<u>3</u>
		9.5

FALL SEMESTER

PTA 203	Physical Therapy Procedures II	3
PTA 205	Therapeutic Exercise	4
PTA 206	Rehabilitation	<u>3.5</u>
		10.5

SPRING SEMESTER

PTA 208	Clinical Practice	<u>12</u>
		39

Division of Health Professions

The Practical Nursing Certificate Program is full-time and 12 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. Please refer to Selective Admissions Procedures.

Program Competencies

Upon successful completion of this program, the student should 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 career development.
- Function within the legal and ethical parameters of the law governing practical nursing.

REQUIRED PROGRAM OF STUDY (Total Credits = 48)

PREREQUISITES:

ORI	102	College Success Strategies	
COM	031	Basics of College Study Skills	
MAT	030	Algebra I	
BIO	120	Biological Concepts or BIO 150*	
CHE	120	Principles of Chemistry*	

SUMMER SESSION

COM	121	English Composition	3
PNP	102	Practical Nursing II	<u>13</u>
			16

FALL SEMESTER

PSY	130	General Psychology	3
PNP	103	Practical Nursing III	<u>13</u>
			16

SPRING SEMESTER

PNP	110	Body Structure and Function**	3
PNP	101	Practical Nursing I	<u>13</u>
			16

ADDITIONAL INFORMATION

PNP is a full-time program only.

Math skills will be tested in the Spring Semester. Students must pass the math exam with an 85% or above.

*Students possessing a high school-level biology and/or chemistry course (with lab) with a "C" grade or better will satisfy this/these course prerequisites.

**Students have the option of taking Bio 250 Anatomy & Physiology I and Bio 255 Anatomy & Physiology II as their requirement for PNP 110 Body Structure and Function. These courses must be completed within five years of the start date into the Practical Nursing Program. Students that have chosen this option would have PNP 110 Body Structure and Function waived.

**Students have the option of taking PNP 110 Body Structure and Function prior to entrance into the program.

Pre-Law/Public Administration Transfer, Associate in Arts Degree

Social Sciences/Human Services Division

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

Program Competencies

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.
- Apply the U. S. Constitution to the criminal justice process, including such issues as arrest, search and seizure, self-incrimination and the right to counsel.
- Describe the federal and state courts of the United States and discuss the operation of these courts and the new areas of law the courts are entering.
- 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.

REQUIRED PROGRAM OF STUDY (Total Credits = 60)

See General Education Requirements	33	Major Requirements		Suggested Electives	12
		HIS 110 History of the United States	I	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.	
		or	3		
		HIS 115 History of the United States	II		
		LAW 150 Legal Procedures	3		
		POS 130 American Government	3		
		POS 135 State & Local Government	3		
		PSY 120 Interpersonal Relations & Communications	<u>3</u>		
			15		

SUGGESTED ELECTIVES

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		

Psychology Transfer, Associate in Arts Degree

Social Sciences/Human Services Division

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

Program Competencies

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

- Describe the discipline of psychology and differentiate between the various sub-fields within psychology.
- Discuss various theories of psychology as they relate to behavior and mental disorders.
- Identify the various theories of development across the life cycle.
- 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.

REQUIRED PROGRAM OF STUDY (Total Credits = 63)

See General

Education Requirements

36

Major Requirements

PSY 130	General Psychology	3
PSY 208	Development Across the Lifespan	3
PSY 220	Mental Health	3
PSY 230	Abnormal Psychology	3
PSY 235	Social Psychology	<u>3</u>
		15

Suggested Electives

12

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.

SUGGESTED ELECTIVES

ANT 135	LAW 150	PSY 216	SOC 220
ANT 140	MAT 210	PSY 225	SOC 225
BIO 120	POS 130	PSY 235	SOC 230
BIO 270	POS 135	PSY 240	SPA 101
HMS 110	PSY 210	SOC 125	SPA 102
HMS 125	PSY 212	SOC 130	SST 110
HMS 240	PSY 214	SOC 210	

Respiratory Care, Associate in Applied Science Degree

Division of Health Professions

The Associate 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.**

Program Competencies

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 (Total Credits = 70)

SEMESTER 1

ORI	102	College Success Strategies	2
BIO	250	Anatomy & Physiology I	4
COM	121	English Composition	3
RES	150	Respiratory Care I	5
RES	200	Cardiopulmonary Anatomy & Physiology	1
RES	212	Pharmacology	<u>2</u>
			17

SEMESTER 2

BIO	255	Anatomy & Physiology II	4
MAT	110	Algebra II	3
PHY	130	General Psychology	
		or	3
SOC	125	Individual & Society	
RES	227	Respiratory Care II	<u>8</u>
			18

SUMMER SESSION

RES	237	Respiratory Care III	<u>3</u>
			3

SEMESTER 3

BIO	280	Microbiology	4
COM	131	Composition & Literature	
		or	3
COM	141	Technical Writing	
RES	255	Respiratory Care IV	<u>10</u>
			17

Semester 4

HUM/ART		Humanities or Art Elective	3
RES	265	Respiratory Care V	<u>12</u>
			15

Science Transfer, Associate in Science Degree

Science and Mathematics Division

This program is designed to prepare the student to enter a baccalaureate program in biological, physical, or pre-professional science or engineering at the junior level.

Program Competencies

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.

REQUIRED PROGRAM OF STUDY (Total Credits = 60)

See Associate in Science General Education Requirements

42

Students should choose 18-20 credits to round out their program. These might include additional mathematics, 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.

Social Work Transfer, Associate in Arts Degree

Social Sciences/Human Services Division

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

Program Competencies

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.

REQUIRED PROGRAM OF STUDY (Total Credits = 63)

See General Education Requirements

36

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
		3
		15

Suggested Electives

12

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.

SUGGESTED ELECTIVES

ANT 135	COM 151	POS 135	PSY 216	SOC 230
ANT 200	HUM 271	PSY 120	PSY 225	SPA 101
ANT 255	HUM 275	PSY 208	PSY 235	SPA 102
BIO 120	LAW 150	PSY 210	PSY 240	SST 110
BIO 270	MAT 210	PSY 212	SOC 210	
CHE 120	POS 130	PSY 214	SOC 220	

Sociology/Anthropology Transfer, Associate in Arts Degree

Social Sciences/Human Services Division

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.

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.

REQUIRED PROGRAM OF STUDY (Total Credits = 63)

See General Education Requirements	36	Major Requirements		Suggested Electives	12
		SOC 130 Sociology	3	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.	
		SOC 210 Social Problems	3		
		SOC 220 The Family	3		
		ANT 140 Cultural Anthropology	3		
		PSY 120 Interpersonal Relations & Communications	3		
			15		

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 200	ANT 290	HUM 280

Sociology/Anthropology Transfer, Associate in Arts Degree

Social Sciences/Human Services Division

This program is designed to prepare the student to enter a baccalaureate program in Sociology/Anthropology/Social Sciences, with a concentration in Anthropology, on the junior level.

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.

REQUIRED PROGRAM OF STUDY (Total Credits = 60)

See General Education Requirements

33

Major Requirements

ANT 135	Human Evolution: Physical Anthropology & Archaeology	3
ANT 140	Cultural Anthropology	3
ANT 210	Native Peoples of North America	3
ANT 245	The Anthropology of Religion	3
	<i>or</i>	
ANT 250	The Anthropology of Religion (Honors)	3
SOC 130	Sociology	3
		<u>15</u>

Suggested Electives

12

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.

SUGGESTED ELECTIVES

ANT 200	ANT 290	SOC 210	GEO 101	HUM 280
ANT 255	ANT 291	HIS 110	SST 110	
ANT 285	ECO 250	HIS 115	PSY 130	

Web Site Development, Associate in Applied Science Degree

Business Division

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.**

Program Competencies

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.
- 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.
- Create integrated documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use using personal productivity software.

REQUIRED PROGRAM OF STUDY (Total Credits = 68)

<u>FIRST YEAR</u>				<u>SECOND YEAR</u>			
FALL SEMESTER 1				FALL SEMESTER 2			
IFT	100	Introduction to Information Technology	3	WEB	200	E-Commerce	3
IFT	110	Microcomputer Applications	3	WEB	230	Web Databases (PHP/MySQL)	3
WEB	100	Web Design I (HTML)	3	ENV	130	The Environment	3
PRG	100	Introduction to Programming	3	BUS	106	Business Communications	3
BUS	100	Introduction to Business	3	MGT	215	Human Relations in Business	3
ORI	102	College Success Strategies	<u>2</u>	HUM/ART		Humanities or Art Elective	<u>3</u>
			17				18
SPRING SEMESTER 1				SPRING SEMESTER 2			
WEB	115	Web Design II (Dreamweaver)	3	WEB	220	Flash Animation	3
NET	100	Fundamentals of Networking	3	BUS	200	Macroeconomics	3
WEB	215	Web Design Graphics	3		or		3
PRG	160	JAVAScript	3	BUS	201	Microeconomics	3
COM	121	English Composition	<u>3</u>	MAT	150	Foundations of Math	3
			15	SOC	125	The Individual & Society	3
				MGT	100	Principles of Management	3
				WEB	210	Web Design Layout	<u>3</u>
							18

Web Site Development, College Credit Certificate

Business Division

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.

Program Competencies

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

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

REQUIRED PROGRAM OF STUDY (Total Credits = 36)

FIRST YEAR

FALL SEMESTER I

IFT	100	Introduction to Information Technology	3
IFT	110	Microcomputer Applications	3
WEB	100	Web Design I (HTML)	3
PRG	100	Introduction to Computer Programming	<u>3</u>
			12

SPRING SEMESTER I

NET	100	Computer Networking	3
WEB	115	Web Design II (Dreamweaver)	3
WEB	215	Web Design Graphics	3
PRG	160	JAVAScript	<u>3</u>
			12

SECOND YEAR

FALL SEMESTER 2

WEB	200	E-Commerce	3
WEB	230	Web Databases PHP/MySQL	<u>3</u>
			6

SPRING SEMESTER 2

WEB	210	Web Design Layout	3
WEB	220	Flash Animation	<u>3</u>
			6

Course Descriptions

2009-2010 Course Descriptions

Accounting–Anthropology

ACCOUNTING

Course Number	Credit Hours
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 <i>Spring</i>	
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. Prerequisites: IFT 110 (or concurrently), COM 050 or COM 051. Strongly recommended: BUS 110 <i>Fall/Spring</i>	
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. Prerequisites: ACC 105, MAT 030 <i>Fall/Spring</i>	
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 <i>Spring</i>	
ACC 205 Intermediate Accounting I 4	
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. Prerequisites: ACC 110, ACC 220; COM 121 or COM 122 <i>Fall</i>	

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 <i>Spring</i>	
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 <i>Spring</i>	
ACC 220 Accounting Information Systems 4	
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 <i>Spring</i>	
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 <i>Fall</i>	
ACC 235 Auditing 3	
Generally Accepted Auditing Standards are studied in this course in relation to the examination of financial statements by an independent auditor. The moral and ethical problems of the auditor are also covered in addition to the planning and implementation of an audit case using computerized spreadsheet software. Prerequisite: ACC 205 <i>Spring</i>	
ACC 240 Advanced Accounting 3	
This course covers advanced level theory and application of accounting principles, including business combinations, consolidated financial statements, international operations, partnership accounting, estates and trust fund accounting, government regulations, and special industrial practices. Prerequisite: ACC 206 <i>See Coordinator</i>	
ACC 290 Cooperative Education I Varies	All
ACC 291 Cooperative Education II Varies	All
ACC 299 Seminar Varies	TBA

ANTHROPOLOGY

Course Number	Credit Hours
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 050 or COM 051, COM 061 <i>Spring</i>	
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 050 or COM 051, COM 061 <i>Fall/Spring</i>	
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 or COM 122, eligibility for the Honors Program <i>TBA</i>	
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 or COM 122 <i>Fall</i>	
ANT 245 The Anthropology of Religion 3	
This course examines theories proposed to explain the origin, function and persistence of supernaturalistic ideology, symbolism and ritual in both non-Western and Western societies as well as the social, cultural and political consequences of religious beliefs and differences. Prerequisite: COM 121 or COM 122 <i>Fall</i>	

Anthropology continued

2009-2010 Course Descriptions

Anthropology (continued)—Biological Sciences

ANT 250 The Anthropology of Religion (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 theories proposed to explain the origin, function, and persistence of supernaturalistic ideology, symbolism, and ritual in both non-Western and Western societies as well as the social, cultural, and political consequences of religious beliefs and differences.

Prerequisites: COM 121 or COM 122, eligibility for the Honors Program TBA

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: COM 121 or COM 122, eligibility for the Honors Program TBA

ANT 285 Ethnographic Research (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. The courses focuses on supervised qualitative field research in particular social situations. Students will learn the steps to accomplishing an ethnographic research project, including ways to do various kinds of observations, fieldnotes, interviews, and analysis and interpretation of field data.

Prerequisite: COM 121 or COM 122, eligibility for the Honors Program Summer

ANT 290 Cooperative Education I Varies

Prerequisite: 27 credits earned in student's program with a 2.0 GPA. All

ANT 291 Cooperative Education II Varies

Prerequisite: 27 credits earned in student's program with a 2.0 GPA. All

ANT 299 Seminar Varies

See Advisor

ART

Course Number Credit Hours

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.

Prerequisite: COM 050 or COM 051 Fall/Spring

ART 112 Drawing II 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 Spring

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 050 or COM 051 Fall/Spring

ART 121 Painting 3

Students will work with acrylic paint and watercolor to explore fundamental color theories. Students will be able to further drawing skills and develop individual approaches to color. They will also explore several different techniques used in producing work in these media. Individual creativity and intent will be emphasized as well as learning the basics.

Prerequisites: ART 111, COM 021 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 or COM 122 Fall/Spring

AMERICAN SIGN LANGUAGE

Course Number Credit Hours

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 050 or COM 051 Fall

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 Spring

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 Fall

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 Spring

BIOLOGICAL SCIENCES

Course Number Credit Hours

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.

Prerequisites: COM 061; MAT 020 or appropriate placement tests score Fall/Spring

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.

Prerequisites: COM 061, COM 050 or COM 051, CHE 120 or high school Chemistry with a "C" or better; MAT 020 or appropriate placement test score Fall/Spring

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 Spring
Biological Sciences continued

2009-2010 Course Descriptions

Biological Sciences (continued)—Career Development

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 *Fall*

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.
Prerequisites: BIO 150 with a "C" or better, COM 061, COM 050 or COM 050 or COM 051 *Fall/Spring*

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 *Fall/Spring*

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, COM 061, COM 050 or COM 050 or COM 051 *Fall/Spring*

BIO 290 Cooperative Education I *Varies*
See Advisor

BIO 291 Cooperative Education II *Varies*
See Advisor

BIO 299 Seminar *Varies*
TBA

BUSINESS

Course Number **Credit Hours**

BUS 100 Introduction to Business 3
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 issues, ethics, and social responsibility.
Prerequisites: COM 050 or COM 051, COM 061 *Fall/Spring*

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/Spring*

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 or COM 122 *Fall/Spring*

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 *Fall/Spring*

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.
Prerequisites: COM 121 or COM 122 and MAT 020 or appropriate placement test score *Fall/Spring*

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 or COM 122 and MAT 020 or appropriate placement test score *Fall/Spring*

BUS 210 Principles of Sales 3
Instruction is provided in the fundamentals of good sales techniques. Classes consist of lectures, discussions, and student sales demonstrations. The personal and economic aspects of selling are reviewed.
Prerequisite: COM 061 *Spring*

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 or COM 122 *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 or COM 122 *Spring*

BUS 240 International Business 3
Using a global perspective, this course examines business and economic theories 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 countertrade, cultural differences, ethical issues, and environmental concerns.
Prerequisites: ACC 105, BUS 100, BUS 200 or BUS 201 *Fall*

BUS 290 Cooperative Education I *Varies*
TBA

BUS 291 Cooperative Education II *Varies*
TBA

BUS 299 Seminar *Varies*
TBA

CAREER DEVELOPMENT

Course Number **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 *Fall/Spring*

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 *TBA*

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*

CAR 299 Seminar *Varies*
See Advisor

2009-2010 Course Descriptions

Chemistry–Communications

CHEMISTRY

Course Number Credit Hours

CHE 110 Introduction to the Laboratory I (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. Prerequisites: COM 061, 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. Prerequisites: COM 061; MAT 030 with a "C" or better Fall/Spring

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. Prerequisites: CHE 120 with a "C" or better (or high school chemistry within the last 3 years), MAT 110 with a "C" or better Fall

CHE 155 Chemistry II 4(Lab)

This course is 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 analysis to strengthen the student in the field of analytical chemistry. Prerequisites: 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, BIO 150 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, CHE 220 Fall

CHE 290 Cooperative Education I Varies
See Advisor

CHE 291 Cooperative Education II Varies
See Advisor

CHE 299 Seminar Varies
TBA

COMMUNICATIONS

Course Number Credit Hours

PLEASE NOTE: COM 040 and COM 041 are equivalent courses. COM 050 and COM 051 are equivalent courses.

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, essays 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. Fall/Spring

COM 031 Basics of College Study Skills 3

The course is designed to assist the student to develop the study skills and 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, notetaking, and systematic approaches to study.

Prerequisite: Placement by appropriate score on placement test. Fall/Spring

COM 040 Basic Writing I with Workshop 4

This course will offer students 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. Fall/Spring

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. Fall/Spring

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 and COM 040 or COM 041 with grades of "C" or better or appropriate score on placement test Fall/Spring

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: Placement by appropriate score on placement test or COM 021 and COM 040 or COM 041 with grades of "C" or better. Fall/Spring

COM 061 Advanced Reading: Speed and 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: Placement by appropriate score on placement test or a grade of "C" or better in COM 021 Fall/Spring

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: Placement by appropriate score on placement test or COM 050 or COM 051 and COM 061 with grades of "C" or better Fall/Spring

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.

2009-2010 Course Descriptions

Communications (continued)

*This Honors section of English Composition assumes a strong foundation in writing skills, including developing and organizing a focused piece of writing and 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 050 or COM 051 and COM 061 or placement by appropriate score on placement test, eligibility for the Honors Program *Fall/Spring*

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 grade of "C" or better *Fall/Spring*

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 grade of "C" or better; eligibility for the Honors Program *Spring*



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 grade of "C" or better *Fall/Spring*

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 activities are performance-based, with students delivering speeches, responding to classmates, and leading class discussions. Videos made of student performances provide opportunities for self-evaluation. Prerequisites: COM 050 or COM 051, COM 061 *Fall/Spring*

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 and team presentations. Students also lead class discussions as well as give feedback to classmates. Videos of students' performances provide opportunities for self-evaluation. Prerequisites: COM 050 or COM 051, COM 061; eligibility for the Honors Program *Spring*

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 *Spring*

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 *Fall*

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 or COM 122 with a grade of "C" or better. *Fall*

COM 211 Poetry Writing 3
In this course students study the elements and craft of writing poetry. Within a workshop setting, students practice stanza, lineation, rhyme, 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 explore strategies for revising their own poems as well as reflect on their personal writing processes. Students also investigate markets for publishing their poetry. Prerequisite: COM 121 or COM 122 *Spring*

COM 215 Creative Nonfiction 3
Creative nonfiction, popularly referred to as "the fourth genre," is narrative rooted in truth— in "real" life. While poetry, fiction and drama are forms that allow their writers to control plot and create characters, creative nonfiction writers must invent only form and style, not circumstance. This course is an introduction to reading and writing creative nonfiction. Students will examine the elements of effective nonfiction prose by reading contemporary models: personal essays, biographical sketches, short pieces of literary journalism and memoir. Students will develop their own nonfiction prose by consistently writing and revising, receiving ongoing written feedback from the instructor, and participating in class discussions, weekly writing workshops, and conferences. Students will enhance research skills by creatively integrating primary and secondary sources into their narratives. Prerequisite: COM 121 or COM 122 *TBA*

COM 299 Seminar 3
Fall/Spring

2009-2010 Course Descriptions

Culinary Arts–Early Childhood Education

CULINARY ARTS

Course Number	Credit Hours
CUL 102 Basic Food Preparation and Safety	6
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. Prerequisites: COM 021, MAT 020 Fall	
CUL 126 Food Preparation Theory	6
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 102 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 126 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 102 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 102 Summer	
CUL 240 Gardé Manager	3
Perfection of techniques in the production of cold food presentations. Preparation of aspics, forcemeats, pates, mousse, marinades, and gelatines. Platter and mirror designs to highlight buffet work. Prerequisite: CUL 126 Fall	
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 201 Spring	

EARLY CHILDHOOD EDUCATION

Course Number	Credit Hours
ECE 105 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 Fall	
ECE 115 Integrated Arts in the Early Childhood Curriculum	3
This course focuses on the process of development as it is related to instruction in the arts. Emphasis will be placed on use of integrated, developmentally appropriate creative arts program for the early childhood period of development defined as birth to age eight. This course highlights the use of play, literature, creative movement, music, creative dramatics, and visual arts. Students will actively engage in creative activities and present arts based experiences to children. Participation both in class and 10 hours per semester in the Campus Education Lab Center is required. Prerequisite: COM 021 Fall/Spring	
ECE 120 Observation and Assessment of Young Children	3
This course examines the basic principles of observation and assessment of children from birth to grade four. Students will use systematic observation tools to observe, record and interpret child's behavior and develop plans to enhance the child's development or improve behavior. The use of traditional and alternative assessment practices will be explored including commercial assessment programs, performance based assessments, teacher developed checklists, rubrics, and portfolios. Emphasis will be placed on documenting developmental progress and linking assessment to program and standards. Students will actively engage in the use of systematic observation tools both in class and in an early childhood classroom setting. Forty hours of observation a semester in the Campus Education Lab Center or a RACC Professional Development School is required. Prerequisites: COM 050 or COM 051, COM 061 Spring	
ECE 125 Introduction to Early Childhood Education	3
This course explores historical, as well as current and future perspectives for all types of programs designed for children in the early childhood period of development defined as birth to grade 4. Emphasis will be placed on current trends in the field as well as the theoretical frame work to support best practices. Topics include major theorists, types of programs, environments, child guidance, inclusive classroom practices, and cultural diversity. Ten hours of systematic participation in the campus Education Laboratory Center is required. Prerequisites: COM 050 or COM 051, COM 061 Fall/Spring	

ECE 140 Health, Safety and Physical Education	3
This course focuses upon health, safety, nutrition and physical development issues of young children birth through grade 4. Planning, implementation and assessment of developmentally appropriate experiences for young children in the areas of health, and physical education are highlighted in this course. The health and safety needs of the physical environment will also be examined. Students will be provided opportunities to analyze and interpret regulatory requirements for all programs serving young children. Participation of 10 hours per semester in the campus Education Lab Center is required. Prerequisites: COM 050 or COM 051, COM 061 Fall	
ECE 150 Early Childhood Practicum I	3
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. Prerequisites: COM 121 or COM 122, grade of "C" or better in ECE 115, ECE 105 TBA	
ECE 220 Curriculum Development & Instructional Materials	3
This course focuses on the use of developmentally appropriate methods in program planning. Students will select and construct materials to enhance the development of the whole child. Early childhood program models and PA Early Learning Standards will be utilized in the planning process. Emphasis will be placed on planning in the content areas of math, science and social studies. Students will participate 20 hours in systematic participation in a RACC Professional Development School. Prerequisite: COM 121 or COM 122, EDU 210 Fall	
ECE 222 Emerging Literacy and Language Arts	3
Students are introduced to theories and developmental milestones in the acquisition of literacy in children from birth to grade four. Pedagogy to interrelate and integrate the language arts; reading, writing, listening, and speaking will be a primary focus of this course. Emphasis will be placed on using current standards to design instruction to support the reading process and classroom environment to meet the emerging literacy needs of children in inclusive classroom settings. Students will participate in 10 hours of systematic participation in a RACC Professional Development School. Prerequisite: COM 121 or COM 122, EDU 210 Fall	
ECE 227 Infant/Toddler Care and Education	3
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 or COM 122 Spring	

2009-2010 Course Descriptions

Early Childhood Education (continued)—Electric Utility Technology

ECE 229 Child Care Management 3
This course is designed to introduce students to the managerial needs of a child care program. Emphasis is placed on the utilization of child care regulations to manage day-to-day operational issues such as staffing, funding, health and safety needs, and planning for age-appropriate child care environments. Students will be introduced to a variety of software applications applicable to managing a child care center.
Prerequisites: COM 121 or COM 122, ECE 115, ECE 105 or ECE 125 *Fall*

ECE 230 Child Care Administration 3
This course focuses on the unique administrative needs of child care 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 or COM 122 *Spring*

ECE 240 School-Age Child Care 3
The focus of this course is on the unique needs of school-age children in the child care 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 child care setting. Students are required to complete 10 hours of participation in an approved school-age child care setting.
Prerequisite: COM 121 or COM 122, ECE 105 or ECE 125, PSY 130 *Fall*

ECE 260 Early Childhood Education Practicum 3
As culmination to the Early Childhood Education programs, students are assigned 200 hours of field related experience with a cooperating teacher in an approved early childhood setting. Students will demonstrate competencies in planning, implementing, and managing a developmentally appropriate program linked to the PA standards. Experiences in this course are designed to provide overall assessment of the student's ability to integrate program competencies. A comprehensive portfolio designed to document how students meet program competencies will be developed in this course. This class is linked with ECE 261 as a corequisite.
Prerequisites: ECE 115, ECE 120, ECE 125, ECE 220, PSY 210 (a grade of "C" or better in each course is necessary)
Corequisite: ECE 261 *Spring*

ECE 261 Family and School Relations 3
This course focuses on the development of relationships between teachers and parents and/or family members. Theoretical frameworks for early childhood professionals, parents, and community to support and promote positive development of children will be evaluated. Topics such as successful home-school community relationships and communications, child development, parenting education, conferencing, parent involvement, family crisis, and referrals will be addressed. This course must be paired with ECE 260 Early Childhood Practicum.
Corequisite: ECE 260 *Spring*

ECE 290 Cooperative Education I Varies
Prerequisite: 27 credits earned in student's program with a 2.0 GPA. *All*

ECE 291 Cooperative Education II Varies
Prerequisite: 27 credits earned in student's program with a 2.0 GPA. *All*

ECE 299 Seminar Varies
See Advisor

ECONOMICS

Course Number Credit Hours

ECO 250 Comparative Economic Systems 3

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 or COM 122 *TBA*

EDUCATION

Course Number Credit Hours

EDU 130 Foundations of Education 3
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.
Prerequisites: COM 050 or COM 051, COM 061 *Fall/Spring*

EDU 210 Planning and Instruction 3
This course is designed to provide the skills and knowledge to aspiring teachers of all age levels to engage in the instructional process. It will focus on research based general teaching methods. Content includes strategies to promote student learning, differentiated instruction, delivery of lesson, application of motivation techniques, and plans for assessment of student learning. Emphasis will be placed on the process of preparing lesson plans and units of instruction with linkages to appropriate standards. The foundation for effective decision making process to create positive learning environments will be introduced. Students will observe 10 hours in approved classroom settings.
Prerequisites: ECE 125 or EDU 130 *Spring*

EDU 220 Multicultural Education 3
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 or COM 122 *TBA*

EDU 290 Cooperative Education I Varies
Prerequisite: 27 credits earned in student's program with a 2.0 GPA. *All*

EDU 291 Cooperative Education II Varies
Prerequisite: 27 credits earned in student's program with a 2.0 GPA. *All*

EDU 299 Seminar Varies
See Advisor

ELECTRIC UTILITY TECHNOLOGY

Course Number Credit Hours

EUT 100 Electric Utility Technology I 6

This course provides the knowledge and skills to perform general utility work necessary to support electrical distribution construction and maintenance. As qualified wood pole climbers coming into the program, students will focus on the identification of line materials, proper use and care of line construction tools and equipment as well as assembly and installation techniques. Students will obtain a Commercial Drivers License in preparation for the operation of digger and bucket trucks necessary for conducting line maintenance. By the end of the first semester students will be framing and setting utility poles, installing underground residential services, splicing overhead services, installing house services and, most importantly, complying with all OSHA and safety guidelines.
Prerequisite: COM 061 *Fall*

EUT 110 Electrical Systems & Control Wiring 4(Lab)

This course covers principles and applications of electrical systems and control wiring. Topics include electrical circuits, electrical measurement, circuit analysis, inductance and capacitance, transformers and electrical control wiring. Emphasis is placed on applications for the electric utility industry.
Prerequisite: MAT 110, EUT 100 *Spring*

EUT 120 Electricity Utility Technology II 6

This course introduces students to more advanced line construction activities. Students will install pad and single-phase transformers, street lights, KWH meters, as well as three-wire and four-wire meters. Students will learn to check continuity, take voltage readings, check polarity, use capacitance and phase rotation meters, as well as meggers. Students will learn the importance of installing rubber goods on secondary conductors, as well as line hose and blankets for primary cover-up. Students will also be expected to operate a single reel trailer and learn the proper technique for sagging primary and secondary conductors.
Prerequisite: EUT 100 *Spring*

EUT 130 Wiring Systems, Transformers, Power Generation and Distribution 4(Lab)

This course covers principles and applications of wiring systems, control transformers, and power generation and distribution. Topics include introduction to raceways, basic conduit bending,

Electric Utility Technology (continued)–English for Speakers of Other Languages

advanced conduit bending, connectors, disconnects and overload protection, conduit sizing and wire pulling techniques, control circuits and transformers, AC power generation, and distribution banks.

Prerequisite: EUT 110

Fall

EUT 200 Electric Utility Technology III 6

This course provides knowledge and skills on identifying, installing, and maintaining primary underground residential distribution (URD) equipment. Students will also be trained on various troubleshooting techniques along with associated equipment to pinpoint faults in primary and secondary underground circuits. Extensive time will be spent on distribution transformers, interpreting transformer name plates, wiring configurations, tap setting, paralleling, and troubleshooting. Students will be introduced to hot-line tools along with their inspection, testing and maintenance requirements. Applicable safety requirements will be taught, stressed, and adhered to throughout the course.

Prerequisite: EUT 120

Fall

EUT 210 Local and National Electric Codes 3

This course provides a working knowledge of the National Electric Code (NEC) as it applies to the electric utility industry. Topics include fundamentals, general wiring, outside clearance requirements, services, footer calculations, over-current protection, transformers, and hazardous location wiring.

Prerequisite: EUT 130

Spring

EUT 220 Electric Utility Technology IV 6

This course is the culmination of the first three semesters' training and work. In semester four, students will perform advanced line work. This will include such activities as splicing energized conductors, replacing lighting arresters, changing pins and insulators, replacing cutouts, and installing cross-arms in energized work areas. Students will be trained in switching and tagging procedures and perform numerous overhead distribution tasks from a pole and bucket truck requiring the use of hot-line tools. Students will also be trained in the safe work practices associated with 15kV direct handling along with all applicable insulate and isolate rules.

Prerequisite: EUT 200

Spring

EUT 290 Cooperative Education I 3

Cooperative education is an academic program which integrates college classroom work with planned supervised experience in business, industry, government, or community service agencies. The student will obtain placement for a work experience directly related to the program of study in which the student is enrolled as a degree candidate. Work assignment must be supervised by a cooperating employer and an academic advisor.

Prerequisite: A minimum of 27 credits in the student's program with a 2.0 GPA

Summer

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES

This program provides services to non-native English-speaking students as well as native English-speaking students with non-English language influences in their backgrounds. Typical enrollees are: international students, resident immigrants, undergraduate students wishing to pursue a RACC degree or transfer RACC credits to another institution, and college graduates and professionals wishing to improve skills using standard American English. Students are placed at the appropriate level of ESL instruction through a combination of computerized testing and writing-sample assessment. ESL credit courses include the following:

ESL 015 Listening and Speaking I 3

This course is the first level of listening and speaking for non-native speakers of English. It includes the development of aural/oral skills for academic and personal communication. Class time is devoted to speaking, pronunciation, listening to actual college lectures, vocabulary development, and oral presentations. Ten hours per semester in the ESL Lab completing further computer-based learning activities are required.

Prerequisite: appropriate score on placement test or permission of the ESL coordinator.

ESL 035 Listening and Speaking II 3

This course is the advanced level of listening and speaking for non-native speakers of English. It includes the further development of aural/oral skills for academic and personal communication. Class time is devoted to speaking, pronunciation, listening to and discussing real college lectures, and vocabulary development, as well as the delivery of oral presentations based on researched topics. Ten hours per semester in the ESL Lab completing further computer-based learning activities are required.

Prerequisite: ESL 015 with a grade of "C" or better; appropriate score on placement test or permission of the ESL coordinator.

ESL 020 Reading I 3

In this course non-native speakers of English develop 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. Instruction includes the use of textbooks, ESL and bilingual dictionaries, and reading software and internet websites available in the ESL Lab. This course is designed to be parallel to the "Basics of College Reading" course, which is offered to native speakers of English. Ten hours in the ESL Lab completing further computer-based learning activities are required.

Prerequisite: appropriate score on placement test or permission of the ESL coordinator.

ESL 060 Reading II 6

Students learn a comprehensive set of reading strategies and study techniques which they can use to cope with the reading demands of college textbooks. Students are taught not simply to read more quickly but also to retain information and evaluate what they read more critically. Instruction includes the use of textbooks, ESL and bilingual dictionaries, and reading software and internet websites available in the ESL Lab. This course is designed to be parallel to the "Advanced Reading" course, which is offered to native speakers of English. Twenty hours in the ESL Lab are required to complete the course.

Prerequisite: ESL 020 with a grade of "C" or better; appropriate score on placement test or permission of the ESL coordinator.

ESL 041 Writing I 6

This first course in a two-part ESL writing course sequence is designed primarily for non-native English speakers, but native speakers with non-English language influences in their backgrounds may also find it useful. ESL Writing I first presents the nature and form of basic structures in English sentences—the four kinds of clauses and the four kinds of phrases and the ways these are connected—as well as principles of standard usage governing their placement in a sentence context. Students' knowledge of these English clauses, phrases and connectors will then be applied as the basis for their creating idiomatic, fragment-free sentences which are concise and varied in patterns of subject-verb and in type, depending on the kinds and numbers of clauses each contains. Grammatical skills in pronoun usage, subject-verb agreement, verb and verbal tense and form, modifier structure and placement, and parallelism will first be introduced and then practiced. Correct usage of punctuation including capital letters, commas, periods, apostrophes, semicolons, dashes and hyphens will also be introduced and applied in a sentence context as appropriate. Twenty hours of work in the ESL Lab are also required to complete the work of the course.

Prerequisite: Appropriate score on placement test or permission of the ESL coordinator.



English for Speakers of Other Languages continued

2009-2010 Course Descriptions

English for Speakers of Other Languages (continued)—Health

ESL 051 Writing II 3

This course is the second and final writing offering in the ESL credit course series. It is designed to provide opportunities in which students can further improve their sentence and paragraph writing skills introduced in ESL Writing I. In addition, it prepares students who pass it for entry into English Composition (provided they have also successfully completed ESL Reading II) by introducing them to principles of effective essay writing. Reviews of the principles of good sentence and paragraph writing are ongoing throughout the course in the context of preparing, reviewing, and rewriting four personal paragraph assignments and two short essay assignments with a limited research component. Ten hours of work in the ESL Lab are required to complete the course.
Prerequisite: ESL 041 with a grade of "C" or better; placement by writing sample or permission of the ESL coordinator.

The ESL program has a fully-equipped multi-media computer lab designed to support students in all areas of program instruction. This facility is located in Room 119 of Humanities Center in The Yocum Library.

For further information about ESL credit courses and placement, please contact:

- Susan Hartman, ESL Program Coordinator at 610.372.4721, extension 5094, or shartman@racc.edu
- Maryanne Brown, ESL Instructor at 610.372.4721, extension 5095, or mbrown@racc.edu
- Karen Jacobson, Humanities Division Chair at 610.372.4721, extension 5092, or kjacobson@racc.edu

The ESL Program office is located in Room 104 of The Yocum Library.

For classes in Workplace Literacy or English Survival Skills, please contact:

- Elaine Moyer, Director of Community Literacy Programs at 610.372.4721, extension 6227, or emoyer@racc.edu.

ENVIRONMENTAL SCIENCE

Course Number Credit Hours

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 *Fall/Spring*

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: 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 astro-photography, radio telescopes, and research satellites; laboratory work involves analysis of photographic data and radio telescope information. *TBA*

ENV 170 Introduction 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 *TBA*

ENV 290 Cooperative Education I Varies

See Advisor

ENV 291 Cooperative Education II Varies

See Advisor

ENV 299 Seminar Varies

TBA

GEOGRAPHY

Course Number Credit Hours

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 050 or COM 051, COM 061 *Fall/Spring*

HEALTH

Course Number Credit Hours

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*

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 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.

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 life-style 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

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 050 or COM 051, COM 061 *Summer*

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.

Prerequisite: COM 061 *Spring*

HEA 299 Seminar Varies

See Advisor

2009-2010 Course Descriptions

Health & Physical Education—Heating, Ventilation, Air Conditioning & Refrigeration



HEALTH & PHYSICAL EDUCATION

Course Number	Credit Hours
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. <i>Fall/Summer</i>	
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 <i>TBA</i>	
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 <i>TBA</i>	
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 <i>TBA</i>	
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 *Spring*

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. <i>Spring/Summer</i>	
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. <i>Fall/Spring</i>	
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 individual 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 <i>Fall/Spring</i>	
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. <i>Fall/Spring</i>	
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 <i>Fall</i>	
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 <i>Spring</i>	
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 <i>Summer</i>	

HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION

Course Number	Credit Hours
HAC 105 Basic Refrigeration, Psychometrics, and Thermodynamics	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. 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: COM 061, MAT 035 or placement by assessment <i>Fall</i>	
HAC 106 Basic Refrigeration, Psychometrics, and Thermodynamics Lab I (Lab)	1 (Lab)
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. Corequisite: HAC 105 <i>Fall</i>	
HAC 115 Basic Electricity and Electromagnetic Functions	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 used to test and evaluate these different circuits. Prerequisites: HAC 105, MAT 150 <i>Spring</i>	
HAC 116 Basic Electricity and Electromagnetic Functions Lab I (Lab)	1 (Lab)
This 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. Corequisite: HAC 115 <i>Spring</i>	
HAC 125 Electric Motors and Motor Control Systems	3
This course covers the design and function of various HVAC/R electrical controls. Basic electric motors and their starting components will also be discussed. Special emphasis will be placed on troubleshooting these electrical controls. Prerequisites: HAC 105, MAT 150 <i>Spring</i>	
HAC 126 Motor Controls and Motor Control Systems Lab I (Lab)	1 (Lab)
This lab covers the drawing of wiring schematics as well as the building and troubleshooting of various refrigeration, air conditioning, heating, ventilation, and refrigeration control circuits. Corequisite: HAC 125 <i>Spring</i>	

HVAC descriptions continued

2009-2010 Course Descriptions

Heating, Ventilation, Air Conditioning & Refrigeration (continued)–History

<p>HAC 135 Residential and Light Commercial Air Conditioning Systems 3</p> <p>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 125</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HAC 206 HVAC Control Systems Lab 1(Lab)</p> <p>This course covers the design and function of various HVAC controls and control systems. Special emphasis will be placed on servicing and troubleshooting these electrical controls. Corequisite: HAC 205</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HIS 120 Western Civilization: To 1600 3</p> <p>This course studies the foundation of European culture and institutions from prehistory to the end of the sixteenth century with an emphasis upon analysis of the dynamics of change in history. Prerequisites: COM 050 or COM 051, COM 061</p> <p style="text-align: right;"><i>Fall</i></p>
<p>HAC 136 Residential and Light Commercial Air Conditioning Systems Lab 1(Lab)</p> <p>This course is designed to cover the practical application of installing, maintaining, and troubleshooting of heat systems, air conditioners and heat pumps. Corequisite: HAC 135</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HAC 215 Unitary Systems 3</p> <p>This course covers the design and function of the major components of a HVAC unitary system including chillers, steam systems, cooling towers, and their controllers. Prerequisite: HAC 156</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HIS 125 Western Civilization: 1600-1945 3</p> <p>The course studies European history from the seventeenth century to 1945, with special emphasis placed on the study of ideologies, cultural and institutional processes of change and the impact of the European world upon the non-European world. Prerequisites: COM 050 or COM 051, COM 061</p> <p style="text-align: right;"><i>Spring</i></p>
<p>HAC 145 Fossil Fuel Systems and Alternative Fuels 3</p> <p>This course covers the fundamentals of fossil fuel and alternative fuels systems in use today. System efficiencies, venting practices, and sizing will be discussed. Special emphasis will be placed on design, installation, maintenance, and troubleshooting. Prerequisite: HAC 125</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HAC 216 Unitary Systems Lab 1(Lab)</p> <p>This course covers the design and function of the major components of HVAC unitary system including chillers, steam systems, cooling towers, and their controllers. Corequisite: HAC 215</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HIS 130 Introduction to Contemporary History 3</p> <p>This course will examine the origins of World War II and emphasize the decline of European hegemony from the end of World War II to the present day. It is intended to be of use to all who feel the need for detail presentation of the major developments in Europe and the world during the last four decades. Prerequisites: COM 050 or COM 051, COM 061</p> <p style="text-align: right;"><i>Odd Years-Spring</i></p>
<p>HAC 146 Fossil Fuel Systems and Alternative Fuels Lab 1(Lab)</p> <p>This course covers installation and servicing of fossil fuel and alternative fuels systems in use today. Special emphasis will be placed on design, installation, maintenance, and trouble shooting. Corequisite: HAC 145</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HAC 225 Duct Design and Fabrication 3</p> <p>The course content includes basic skills of duct design and fabrication. Interpretation of architectural drawings will be presented with relationship to duct system specifications. Special emphasis will be place on correct sizing, designing complete systems, and fabrication. Prerequisites: HAC 205</p> <p style="text-align: right;"><i>Spring</i></p>	<p>HIS 135 America's Civil Rights Movement 3</p> <p>America's Civil Rights Movement is a comprehensive history of the people, the stories, the events, and the issues of the 20th Century struggle for justice in America. The course focuses on the period of American History from World War II to the present. Prerequisites: COM 050 or COM 051, COM 061</p> <p style="text-align: right;"><i>TBA</i></p>
<p>HAC 155 Commercial Refrigeration 3</p> <p>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. Prerequisite: HAC 126</p> <p style="text-align: right;"><i>Spring</i></p>	<p>HAC 226 Duct Design and Fabrication Lab 1(Lab)</p> <p>The course content includes basic skills of duct design and fabrication. Interpretation of architectural drawings will be presented with relationship to duct system specifications. Special emphasis will be place on correct sizing, designing complete systems, and fabrication. Corequisite: HAC 225</p> <p style="text-align: right;"><i>Spring</i></p>	<p>HIS 219 The American Civil War 3</p> <p>This course is designed to facilitate student exploration of topics pertaining to the American Civil War. Essentially a survey, the course considers causation, development and a range of issues including slavery, execution of the Civil War, effects of the Civil War on society with respect to social, economic, and political development. Finally the course considers the "watershed" outcomes of the Civil War, particularly those related to race and racial relations. An analytical approach is applied to this course. Prerequisite: COM 121 or COM 122</p> <p style="text-align: right;"><i>Even Years-Spring</i></p>
<p>HAC 156 Commercial Refrigeration Lab 1(Lab)</p> <p>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. Corequisite: HAC 155</p> <p style="text-align: right;"><i>Spring</i></p>	<p>HAC 235 HVAC Codes and Regulations 3</p> <p>This course covers the HVAC codes and regulations that are part of local, state, federal and international HVAC systems installation and operational requirements. Prerequisite: HAC 216</p> <p style="text-align: right;"><i>Spring</i></p>	<p>HIS 255 Interpreting Lives: Rites of Passage, Personal History, & the Life Cycle (Honors) 3</p> <p>Same as ANT 255 & PSY 255. See ANT 255 for course description.</p>
<p>HAC 165 Environmental Protection Agency (EPA) Refrigerant Transition Certification Preparation 2</p> <p>This course covers the function of the major components of a refrigeration system with relationship to recovery, recycling, and reclaiming of refrigerants. The course prepares students for 608 and 609 certification examinations according to the Clean Air Act. Prerequisite: MAT 150</p> <p style="text-align: right;"><i>Spring</i></p>	<p>HISTORY</p>	
<p>HAC 205 HVAC Control Systems 3</p> <p>This course covers the design and function of various HVAC controls and control systems. Special emphasis will be placed on troubleshooting these electrical controls. Prerequisite: HAC 155</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HIS 110 History of the United States to 1877 3</p> <p>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 050 or COM 051, COM 061</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HIS 290 Cooperative Education I Varies</p> <p>Prerequisite: 27 credits earned in student's program with a 2.0 GPA</p> <p style="text-align: right;"><i>All</i></p>
<p>HAC 206 HVAC Control Systems Lab 1(Lab)</p> <p>This course covers the design and function of various HVAC controls and control systems. Special emphasis will be placed on troubleshooting these electrical controls. Prerequisite: HAC 155</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HIS 115 History of the United States Since 1865 3</p> <p>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. Prerequisites: COM 050 or COM 051, COM 061</p> <p style="text-align: right;"><i>Spring</i></p>	<p>HIS 291 Cooperative Education II Varies</p> <p>Prerequisite: 27 credits earned in student's program with a 2.0 GPA</p> <p style="text-align: right;"><i>All</i></p>
<p>HAC 205 HVAC Control Systems 3</p> <p>This course covers the design and function of various HVAC controls and control systems. Special emphasis will be placed on troubleshooting these electrical controls. Prerequisite: HAC 155</p> <p style="text-align: right;"><i>Fall</i></p>	<p>HIS 299 Seminar Varies</p> <p style="text-align: right;"><i>See Advisor</i></p>	

2009-2010 Course Descriptions

Human Services–Humanities

HUMAN SERVICES

Course Number **Credit Hours**

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.

Prerequisites: COM 050 or COM 051, COM 061
Fall/Spring

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 *Spring*

HMS 215 Human Service Practice I 3

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 or COM 122, HMS 110 and PSY 120 *Fall*

HMS 216 Human Service 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 *Spring*

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 a 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 or COM 122, HMS 110 *Spring*

HMS 250 Fieldwork in Human Services 3

This course will provide students with on-site experience in a variety of human service settings. It includes seminar discussions of experiential learning.

Prerequisites: 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. Petition approval from advisor required. *Spring*

HMS 299 Seminar Varies

See Advisor

HUMANITIES

Course Number **Credit Hours**

HUM 221 Music Appreciation 3

This course provides an approach to perceptive listening of music and an introduction to musical elements, forms, and stylistic periods. The lives, individual styles, and representative works of many composers are examined in detail. European and American music from the Middle Ages to the present are studied. An introduction to music in nonwestern cultures is included.

Prerequisite: COM 121 or COM 122 *Spring*

HUM 231 World Literature I 3

Selected works from ancient times to the seventeenth century are examined to show the development of humanity and the development and characteristics of the major literary genres.

Prerequisite: COM 121 or COM 122 *Fall*

HUM 235 World Literature II 3

Selected works from the sixteenth century to the present 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 or COM 122 *Spring*

HUM 241 American Literature I 3

Representative works of selected major American writers from the Colonial, Revolutionary, and Romantic periods are examined from a literary perspective. Changing cultural, political, economic, and philosophical ideas in America from 1650 to 1865 which form the context for its Colonial, Revolutionary, and Romantic literatures are also presented and discussed. Finally, relationships between American literature and culture from these three earlier periods and American literature today are explored.

Prerequisite: COM 121 or COM 122 *Fall*

HUM 245 American Literature II 3

The works of major American writers of the late nineteenth and the twentieth centuries are examined. The changing cultural and philosophic ideas represented in the literature are discussed.

Prerequisite: COM 121 or COM 122 *Spring*

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 or COM 122 *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 or COM 122 *Fall*

HUM 255 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 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 or COM 122 *Spring*

HUM 261 Film Studies 3

The course emphasizes film styles and techniques from the 19th century through recent times. In addition to exploring the contributions of early directors and actors, students in the course assess the impact of early technology on film aesthetics, the markers of film genres, and the role of film as it both reflects and influences society.

Prerequisite: COM 121 or COM 122 *Fall/Spring*

HUM 271 Introduction to Philosophy 3

The course is an introduction to the major questions raised and theories asserted by philosophers on the nature of man, society, and the universe, specifically in the areas of ontology, epistemology, and ethics. Students will become familiar with the specialized language, processes, and skills needed to practice speculative philosophy.

Prerequisite: COM 121 or COM 122 *Fall/Spring*

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 right and good, and relative and absolute values. The course is primarily theoretical (emphasis on aims, structure, development, and evaluation of moral theory), with some applications to practical ethics (issue-oriented, in-class discussion when the use of practical examples is helpful to explain a point of moral theory). Students will become familiar with the specialized language, processes, and skills needed to understand and practice the discipline of ethical thinking.

Prerequisite: COM 121 or COM 122 *Fall/Spring*

Humanities descriptions continued



2009-2010 Course Descriptions

Humanities (continued)—Law Enforcement/Criminal Justice

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 or COM 122; eligibility for the Honors Program *Spring*

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.
Prerequisite: COM 121 or COM 122; eligibility for the Honors Program *Fall*

HUM 299 Seminar *Varies*
See Advisor

INFORMATION TECHNOLOGY

Course Number **Credit Hours**

IFT 100 Introduction to Information Technology 3
This course provides students with an overview of computer systems and related information technology issues. Topics include historical development and basic functions of computers; computer systems; major computer applications, data communications and networks; graphics and multimedia; ethical and social issues; and career opportunities. The operating system is introduced and basic operating system commands and conventions are explained and utilized.
Prerequisite: COM 061, MAT 020 *Fall*

IFT 101 Introduction to Personal Computers & Windows 2
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 test *TBA*

IFT 109 Academic Computing Skills 1
This course introduces the user to 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 acquaint them with the computing services and skills used on campus for registration, information search and

retrieval, and course delivery. In addition to discussing the basic workings of a computer, the course will include hands-on activities in word processing, file management, internet access, registration, and online course delivery. *All*

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, presentation and database software to solve a variety of problems. The specific applications software which will be used includes Windows, Word, Excel, Access and PowerPoint. Students will also access the Internet.
Prerequisites: COM 061 or appropriate score on placement test and MAT 020 *Fall/Spring*

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 advanced skills in creating presentations. Students will also incorporate information from the Internet into their document preparation.
Prerequisites: IFT 110, COM 121 or COM 122 *Fall/Spring*

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 semester to the next as new issues rise to the forefront of the field of information technology.
Prerequisites: NET 125, COM 121 or COM 122 *TBA*

LAW ENFORCEMENT/ CRIMINAL JUSTICE

Course Number **Credit Hours**

LAW 135 Introduction to Criminal Justice 3
This introductory course is a comprehensive overview of the criminal justice system. The course focuses on crime in America, police process, courts and punishment, the prison system, and contemporary topics in law enforcement.
Prerequisites: COM 050 or COM 051, COM 061 *Fall/Spring*

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 *Fall/Spring*

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 and 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 050 or COM 051, COM 061 *Fall/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 050 or COM 051, COM 061 *Spring*

LAW 185 Criminology 3
Introduces historical and criminological theories with emphasis on the criminal justice system and its role in crime prevention.
Prerequisites: COM 050 or COM 051, COM 061 *Fall/Spring*

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 or COM 122 *Fall*

LAW 240 Law Enforcement Management 3
This course identifies the skills required to supervise and manage law enforcement agencies. The focus is on the roles of managers and supervisors as leaders, trainers, motivators, and problem solvers. The management and leadership skills necessary to lead modern law enforcement agencies are covered in this course.
Prerequisites: COM 121 or COM 122, LAW 150 *Spring*

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 or COM 122 *Fall*

LAW 255 Law Enforcement & Community Relations 3
The course will include a general overview of the Criminal Justice System, the responsibilities of each

2009-2010 Course Descriptions

Law Enforcement/Criminal Justice (continued)–Machine Tool Technology

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 or COM 122 *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 or COM 122, LAW 150
Fall/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.

Prerequisites: COM 121 or COM 122, LAW 150
Spring

LAW 290 Cooperative Education I Varies

Prerequisite: 27 credits earned in student's program with a 2.0 GPA *All*

LAW 291 Cooperative Education II Varies

Prerequisite: 27 credits earned in student's program with a 2.0 GPA *All*

LAW 299 Seminar Varies

See Advisor

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

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 plane geometry and trigonometry.

Prerequisite: MTT 120

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

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

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

MTT 151 Introduction to Metalworking 3 (Lab)

This course is designed to provide the machinist/tool 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 131, MTT 120, and MTT 165

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

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, and usage will be covered. Students are prepared to take the National Institute of Metalworking Skills (NIMS) level I & level II certification in turning between centers and chucking.

Prerequisite: MTT 151

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.

Prerequisite: 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

Machine Tool Technology (continued)

MACHINE TOOL TECHNOLOGY

Students are granted credit for Machine Tool Technology (MTT) courses by articulation after completion of the course competencies through courses offered by RACC's Workforce and Economic Development/Community Education Division. Students should contact the division to obtain information on course offerings.

MTT 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 applied the fundamental principles of mechanical drafting and sketching taught 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: MTT 131

MTT 120 Machine Tool Mathematics I 3

This course is designed to provide the mechanist/tool and die maker with the information

2009-2010 Course Descriptions

Machine Tool Technology (continued)—Management

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.

Prerequisite: 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.

Prerequisite: 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 and II to construct more difficult parts. The course also includes code generation, machine file and 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.

MANAGEMENT

Course Number Credit Hours

MGT 100 Principles of Management 3

Introduction to the major functions of management - planning, organizing, staffing, leading, 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 program includes BUS 100, we recommend that it be taken prior to MGT 100.

Prerequisites: COM 050 or COM 051, COM 061

Fall/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 Spring

MGT 200 Human Resource Management 3

Introduction to the development of a well-balanced human resource 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.

Prerequisites: MGT 100, COM 121 or COM 122

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.

Prerequisites: MGT 100, COM 121 or COM 122;

Strongly recommended: MGT 200

Spring

MGT 215 Human Relations in Business 3

Focuses on human relations and communications skills necessary for effectiveness in the world of business. The purpose of this course is to ensure successful performance in a business setting by improving skills in communication, conflict resolution, motivation, leadership, and productivity. Both interpersonal and group skills will be addressed and applied to specific business situations through role play, case studies, and group presentations of situations specific to the business environment.

Prerequisites: COM 050 or COM 051, COM 101

Fall/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

2009-2010 Course Descriptions

Management (continued)—Mathematics

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 resource management, and marketing. Students will develop a business plan.

Prerequisites: IFT 110, MGT 100 Spring

MGT 240 Compensation Management 3
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, MGT 100 Spring

MGT 250 Operations Management 3
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, MGT 100 Fall

MGT 290 Cooperative Education I Varies
Fall/Spring

MGT 291 Cooperative Education II Varies
Fall/Spring

MGT 299 Seminar Varies
TBA

MATHEMATICS

Course Number **Credit Hours**

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.

Prerequisites: COM 021, or placement by assessment Fall/Spring

MAT 021 Basics of College Mathematics Discussion 1

This course provides additional work to supplement MAT 020 in covering 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. Students enrolled in this course must be concurrently enrolled in a section of MAT 020.

Fall/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 and inequalities, applications of linear equations, graphing linear equations and inequalities, basic radicals, factoring concepts, rational expressions, systems of linear equations, and problem solving/applications.

Prerequisites: MAT 020, COM 021 or placement by assessment Fall/Spring

MAT 031 Algebra I Discussion 1

This course provides additional work to supplement MAT 030 in covering 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, basic radicals, factoring concepts, rational expressions, systems of linear equations, and problem solving/applications. Students enrolled in this course must be concurrently enrolled in a section of MAT 030.

Fall/Spring

MAT 035 Algebra I with Quadratics 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 and inequalities, applications of linear equations, graphing linear equations and inequalities, basic radicals, factoring concepts, rational expressions, systems of linear equations, and problem solving/applications. This course also provides an introduction to quadratic equations needed for progression into MAT 110.

Prerequisites: MAT 020, COM 021 or placement by assessment Fall/Spring

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 and inequalities, relations and functions, and exponential/logarithmic functions.

Prerequisite: MAT 035 with a "C" or better or placement by assessment Fall/Spring

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.

Prerequisite: MAT 030 Fall/Spring

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.

Prerequisite: 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; partial fractions; systems of equations, determinants and Cramer's Rule; Binomial Theorem; conics.

Prerequisite: MAT 110 with a "C" or better or placement by assessment Fall/Spring

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, and vectors.

Prerequisite: MAT 160 or placement by assessment Fall/Spring

NOTE: MAT 160 and MAT 165 together can be used to fulfill any prerequisite or graduation requirement that requires MAT 180.

MAT 180 Precalculus 3

This course is an overview of algebraic and trigonometric principles. Emphasis is placed on functions in both disciplines. The theory of limit is presented. Topics covered include: inequalities, polynomial, exponential, logarithmic, and trigonometric functions; theory of equations; partial fractions; trigonometry; analytic geometry; and the binomial theorem.

Prerequisite: MAT 165 or placement by assessment 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

The major topics covered in this course are limits, continuity and differentiability, derivative applications in curve sketching, related rates, maxima and minima problems, indefinite and definite integration.

Prerequisite: MAT 180 or placement by assessment Fall

MAT 221 Calculus II 4

This course is a continuation of MAT 220. Topics 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

This course is a continuation of MAT 221. 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 TBA

MAT 299 Seminar Varies
TBA

2009-2010 Course Descriptions

Mechatronics Engineering Technology

MECHATRONICS ENGINEERING TECHNOLOGY

Students are granted credit for **Mechatronics Engineering Technology (MET)** courses by articulation after completion of the course competencies through courses offered by RACC's Workforce and Economic Development/Community Education Division. Students should contact the division to obtain information on course offerings.

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 Program in Integrated Systems Technology. All course material is supplemented with practical hands-on exposure to the items described.

Prerequisite: MAT 110

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 Program in Integrated Systems Technology. All course material is supplemented with practical hands-on exposure to the items described.

Prerequisite: MAT 110

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 Program 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, RSLink, PanelView 1000, and Panelbuilder 32 products are used in the teaching of this material.

Prerequisite: MET 130

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.

Prerequisites: MET 120, PHY 150

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

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 I and 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.

Prerequisites: MET 140, MET 160

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.

Prerequisites: MET 130, PHY 150

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

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

2009-2010 Course Descriptions

Mechatronics Engineering Technology (continued)—Nanoscience

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.
Prerequisites: MET 200, MET 220, NET 125

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.
Prerequisites: MET 150, MET 200, MET 210, MET 220

MEDICAL LABORATORY TECHNICIAN

Course Number 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 Spring

MLT 211 Clinical Laboratory Techniques 3(Lab)

The purpose of this course is to prepare medical laboratory technician students for transition to clinical experiences in the final semester 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 and admission to the clinical portion of the MLT program. Fall

MLT 220 Clinical Hematology/Coagulation 5(Lab)

Within this clinical laboratory-based course, the students will be actively engaged in rotations and lectures in hematology and coagulation. Emphasis will be placed on all the hematologic cell series, anemias, leukemias, and other blood dyscrasias. Hematology and coagulation 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. 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 211
Corequisites: MLT 221, MLT 230, MLT 231 Spring

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.
Prerequisite: MLT 211
Corequisites: MLT 220, MLT 230, MLT 231 Spring

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 211
Corequisite: MLT 233 Interim January Session

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 211
Corequisites: MLT 220, MLT 221, MLT 231 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 211
Corequisites: MLT 220, MLT 221, MLT 230 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 211
Corequisite: MLT 222 Interim January Session

NANOSCIENCE

NSC 180 Electronics for Nanoscience 4(Lab)

This course will cover theory and principles regarding direct current (DC), alternating current (AC), digital and electronic circuits. Topics include different types of DC/AC sources, waveforms, basic circuit elements, series and parallel circuits, applicable theorems and laws, digital logic circuits and number systems, logic gates, Boolean algebra, Karnaugh mapping, and solid state electronics. This course is designed for students majoring in the Nanoscience Technology Program.

Prerequisites: CHE 150, MAT 165, PHY 150 or PHY 245 Fall

Course Number Credit Hours

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: MAT 165, MAT 210, COM 121 or COM 122, COM 141, IFT 110, BIO 150, CHE 150, PHY 150 or a faculty recommendation. Fall
Corequisite: NSC 180.

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 gas delivery, corrosive and flammable gas storage and plumbing, regulators, and mass flow 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 or COM 122, COM 141, IFT 110, MAT 165, MAT 210, NSC 180, 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

Nanoscience descriptions continued

2009-2010 Course Descriptions

Nanoscience (continued)—Networking

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), polysilicon (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 C-V and I-V 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.

Prerequisite: NSC 215

NETWORKING

Course Number Credit Hours

NET 100 Computer 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 Fall/Spring

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.

Prerequisites: IFT 100, IFT 110 Spring

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 server. 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 a real world situation. The student should be prepared after completion of the class with additional study to take the Windows Server MCSE exam.

Prerequisites: NET 100, NET 105, COM 121 or COM 122 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.

Prerequisites: IFT 100, IFT 110 Fall

NET 200 Network Technologies & Troubleshooting 3

This course will provide the foundation for both concepts and terminology 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.

Prerequisites: NET 120 TBA

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 TBA

NET 250 Network Security 3

This course provides a comprehensive view of the various types of attacks that are launched against networks and computer systems. It examines network and computer security defense mechanisms, and teaches techniques for preventing and countering attacks. After completion of the course, the student will be prepared to sit for CompTIA's Security+ certification exam.

Prerequisite: NET 120 TBA

2009-2010 Course Descriptions

Nursing–Office Technology

NURSING

Course Number	Credit Hours
NUR 100 Nursing I	9 (Lab)
This course introduces and develops foundational nursing concepts including: professional nursing and nursing roles, nursing process, communication, client life dimensions, positive and altered functioning. The theory includes applying the nursing process to manage the care of adults requiring medical and surgical intervention for selected pathophysiological conditions. Emphasis is placed on developing and applying nursing skills in communication, nursing assessment, and client teaching. Guided clinical experience introduces the student to nursing practice with adult clients in long term care, acute care, and community health settings. Prerequisites: ORI 100, BIO 250, COM 061 (or appropriate score on placement exam), and all courses stated in the Selected Admissions Procedures in the current Reading Area Community College Student Catalog, current CPR certification for the professional, and 2.5 or better GPA for Reading Area Community College coursework <i>Fall</i>	
NUR 111 Transition to Nursing	2
This is a course for LPN's who have been accepted for advanced placement and students who have transferred from another professional nursing program into the Associate Degree Nursing Program clinical courses. The course introduces the student to concepts of professional nursing as they relate to the philosophy and conceptual framework of the RACC ADN Program. Prerequisites: All courses stated in the Selective Admissions Procedures in the current Reading Area Community College Student Catalog, COM 121 or COM 122, current CPR certification for the professional, 2.5 or better GPA for Reading Area Community College work, and special permission of the Nursing Program Admissions Committee <i>Summer</i>	
NUR 115 R Nursing Seminar	1
This course is designed to assist students to be successful when re-entering a clinical nursing course in the first year of the nursing program. 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 <i>Summer</i>	
NUR 116 R Nursing Seminar	2
This course is designed to assist students to be successful when re-entering a clinical nursing course in the second year of the nursing program. 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. <i>Summer</i>	

NUR 150 Nursing II	9 (Lab)
This course further develops concepts of health and illness including biological defense mechanisms, infectious disease and chronic illness with a focus on care of adult and adolescent clients. The theory includes applying the nursing process to manage the care of clients in diverse settings. The emphasis is placed on utilizing critical thinking skills in applying the nursing process in the care of clients with acute and rehabilitative needs. Guided clinical experience facilitates continued development of nursing skills and the ability to apply theory to practice. Prerequisites: COM 121 or COM 122, BIO 255, NUR 100 and all courses stated in the Selected Admissions Procedures in the current Reading Area Community College Student Catalog, and current CPR certification for the professional <i>Spring</i>	
NUR 200 Nursing III	10 (Lab)
This course explores the concepts of the well child, care of the childbearing family, adults and children with acute alterations in health and/or complex psychosocial needs. The theory includes applying the nursing process in specialized healthcare settings. There is an emphasis on therapeutic communication skills and critical thinking skills. Guided clinical experience affords opportunities to provide developmentally appropriate nursing care. Prerequisites: PSY 130, BIO 280, NUR 150 and all courses stated in the Selected Admissions Procedures in the current Reading Area Community College Student Catalog, and current CPR certification for the professional <i>Fall</i>	
NUR 250 Nursing IV	10 (Lab)
This course addresses rapidly changing alterations in health status while preparing the student for role transition to the graduate nurse. The content and practice are based on knowledge and skills acquired in all previous nursing courses. Concepts, trends and professional practice issues affecting healthcare delivery are analyzed. Clinical experiences allow for integration of theory and skills in the organization of care for multiple clients. Selected acute care and community health settings are utilized. Prerequisites: MAT 150 or another 100 level or higher MAT course, COM 131 or COM 141, NUR 200 and all courses stated in the Selected Admissions Procedures in the current Reading Area Community College Student Catalog, and current CPR certification for the professional <i>Spring</i>	
NUR 290 Cooperative Education I	Varies All
NUR 291 Cooperative Education II	Varies All

OFFICE TECHNOLOGY

Course Number	Credit Hours
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 <i>Fall/Spring</i>	
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. <i>Fall/Spring</i>	
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) <i>Spring</i>	
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 110 Corequisite: BUS 105, OFT 111 <i>Spring</i>	
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 <i>Fall</i>	
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) <i>Spring</i>	

Office Technology descriptions continued

2009-2010 Course Descriptions

Office Technology (continued)–Political Science

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 111 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 111 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 Spring

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 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 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 240 Spring

OFT 243 Medical Coding 3
This course is designed to assist students in their understanding of the numerical codes that insurance companies utilize for medical claims. The students will also gain an understanding of health care delivery systems, medical terminology, and classification systems for diseases. TBA

OFT 290 Cooperative Education I Varies
Fall/Spring
OFT 291 Cooperative Education II Varies
Fall/Spring
OFT 299 Seminar Varies
All

ORIENTATION

Course Number **Credit Hours**
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 TBA

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: Permission of instructor Fall/Spring

ORI 299 Seminar Varies
See Advisor

PHYSICS

Course Number **Credit Hours**

PHY 120 Principles of Physics 4(Lab)

Principles of Physics is an algebra-based first-year college physics course which covers the concepts of physics. Among the topics include nature of physics, description of motion, Newtown's Laws, circular motion, momentum, energy and oscillations, temperature and heat.

Prerequisites: MAT 030 with a "C" or better, or placement by assessment, COM 061 Spring

PHY 150 Applied Physics 4

This is an algebra-based course with some trigonometry designed for students 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 every-day examples to show how these concepts are applied. It stresses accurate measurements, and the recording and manipulation of data.

Prerequisites: COM 061, MAT 110 or MTT 125 Fall/Spring

PHY 240 Physics I 4(Lab)

Physics I is a non-calculus based physics course with emphasis on the aspects of matter and energy that governs the functioning of our universe. The topics included are vector analysis, kinematics, force and motion, two dimensional motion, gravitation, energy, momentum and collisions, heat and calorimetry. Students will be expected to perform experiments and interpret results using the basic theories of physics.

Prerequisites: MAT 165 and PHY 120 or high school Physics within last 5 years Fall

PHY 245 Physics II 4(Lab)

Physics II is a non-calculus based physics course with emphasis on the physical principles of electricity, magnetism, and optics. The topics include electrostatics, direct current circuits, magnetism, electromagnetic induction, capacitance and inductance, alternating current circuits, geometrical optics, lenses, and mirrors. Students will be expected to perform experiments and interpret results using the basic theories of physics.

Prerequisite: PHY 240. Spring

PHY 290 Cooperative Education I Varies
See Advisor

PHY 291 Cooperative Education II Varies
See Advisor

PHY 299 Seminar Varies
TBA

POLITICAL SCIENCE

Course Number **Credit Hours**

POS 130 American Government 3

A general explanation of the dynamics of the American political system. Governmental structures, processes, political parties, and citizen and group action are described and analyzed in the context of American political culture with an emphasis on national politics and issues.

Prerequisites: COM 050 or COM 051, COM 061 Fall/Spring

POS 135 State & Local Government 3

This political science course is designed to provide basic theory and knowledge of the operation of American state and local political systems within the American Federal system. Through systems analysis, students learn to comprehend the interrelationships between individuals, interest groups, political parties, and the legislative, executive, and judicial organizations of government as they cooperate and conflict over the resolution of problems. Public policy issues of current controversy to state and local systems are treated as part of the course.

Prerequisites: COM 050 or COM 051, COM 061 Spring

POS 290 Cooperative Education I Varies

Prerequisite: 27 credits earned in student's program with a 2.0 GPA. All

POS 291 Cooperative Education II Varies

Prerequisite: 27 credits earned in student's program with a 2.0 GPA. All

POS 299 Seminar Varies
See Advisor

2009-2010 Course Descriptions

PRACTICAL NURSING

Course Number	Credit Hours
PNP 110 Body Structure & Function 3	
This course is designed to acquaint practical nursing students with basic normal human anatomy and physiology. Integrated action between all body systems will be stressed. This course will enable the practical nursing student to relate normal structure and function to problems, which can affect body systems. It provides a foundation from which the student can build upon to learn abnormal human anatomy and physiology. Prerequisite: BIO 120 or BIO 150; CHE 120 Corequisite: PNP 101 (Spring). Students in the PNP selective admissions process have the option of taking PNP 110 prior to entrance into the program. <i>Spring</i>	
PNP 101 Practical Nursing I 13	
This course emphasizes fundamental practical nursing principles and skills needed for holistic care of clients. Assessment via the nursing process, problem identification, and communication skills necessary for therapeutic care are emphasized. Sensitivity to the client's culture, spiritual, and age-related needs are incorporated. This course focuses on individual and community health promotion and disease prevention concepts. Ethical dilemmas and legal concerns are addressed. Prerequisites: ORI 102, COM 031, MAT 030, BIO 120 or BIO 150, CHE 120. All prerequisites require a grade of "C" or higher; current C.P.R. certification for healthcare professionals, completion of selective admissions procedure. Corequisite: PNP 110 [Fee] <i>Spring</i>	
PNP 102 Practical Nursing II 13	
This course places emphasis on medical/surgical practical nursing concepts and their application to clinical practice. Principles of pharmacology are addressed. Focus is placed on implementing the nursing process in the care of adults experiencing alterations of the musculoskeletal, respiratory, cardiovascular, and reproductive systems. Relevant nutrition, oncologic, pharmacologic, gerontologic, and psychosocial considerations are incorporated throughout. Students examine human dynamics through the lifespan as they become exposed to family-centered health care. Prerequisites: PNP 101; PNP 110 or BIO 250 and BIO 255; successful completion of the mathematics examination; all prerequisites require a grade of "C" or higher; current C.P.R. certification for healthcare professionals Corequisite: COM 121 or COM 122 [Fee] <i>Summer</i>	
PNP 103 Practical Nursing III 13	
This course focuses on the transition from the role of student to the graduate practical nurse. Legal, ethical, and moral issues affecting the nurse are explored. A holistic approach to maternal-child nursing care is introduced. Emphasis is also placed on the application of critical thinking to clinical problem solving for the National Council Licensing Exam-Practical Nursing (NCLEX-PN), and for leading and managing others in the workforce. Prerequisites: PNP 102, COM 121 or COM 122, current C.P.R. certification for healthcare professionals Corequisite: PSY 130 [Fee] <i>Fall</i>	

PROGRAMMING

Course Number	Credit Hours
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. Programming language is introduced to allow the student to apply the pseudocode logic to a program for visual output. Prerequisites: COM 061, MAT 030 <i>Fall/Spring</i>	
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 <i>TBA</i>	
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 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 <i>Spring</i>	
PRG 260 Database Systems 3	
This course teaches relational fundamentals and SQL programming skills. Topics covered include relational database architecture, database design techniques, and simple and complex query skills. Topics covered include SQL functions, join techniques, database objects, and constraints. Extensive hands-on exercises are used throughout to reinforce learning and develop real competency. Prerequisite: PRG 100, IFT 120 <i>Spring</i>	

PSYCHOLOGY

Course Number	Credit Hours
PSY 100 Personal Development 3	
This course is designed to provide students with skills needed to be successful in the college environment and to enhance self-awareness, interpersonal communication, and decision-making skills. <i>Fall/Spring</i>	
PSY 115 Modern Parenting 3	
The Modern Parenting course is intended to offer students a thorough introduction to the theoretical and practical principles involved in effective parenting and childrearing. It provides students with an understanding of the roots of personality development. Students will examine childrearing practices and gain insight into the relationships among parenting, emotional development, and the behavior of the child. Emphasis is placed upon family communication, roles, conflicts, and their effects upon the developing individual. Prerequisite: COM 061 <i>TBA</i>	

Practical Nursing–Psychology

PSY 120 Interpersonal Relations & Communications 3	
The course investigates how individuals relate on a personal level. Consideration will be given to verbal and non-verbal communications. Prerequisites: COM 050 or COM 051, COM 061 <i>Fall/Spring</i>	
PSY 130 General Psychology 3	
This course will concern itself with psychological phenomena which are basic for understanding human behavior. Topics include history, methods and fields of psychology, learning, motivation, memory, intelligence, emotion, personality and psychological disorders and their treatment. Prerequisites: COM 050 or COM 051, COM 061 <i>Fall/Spring</i>	
PSY 131 General Psychology (Honors) 3	
This course will concern itself with psychological phenomena that are basic for understanding human behavior. Topics include history, methods and fields of psychology, learning, motivation, memory, intelligence, emotion, personality, human development, and psychological disorders and their treatment. The course will involve in depth study and exploratory learning, essay writing, collaborative activities, and individualized research. Prerequisites: COM 050 or COM 051, COM 061 and eligibility for the Honors Program <i>TBA</i>	
PSY 208 Development Across the Lifespan 3	
This course will involve study of the aspects of biological, social and cognitive development from the conception and prenatal period through old age and death. Prerequisites: COM 121 or COM 122, PSY 130 <i>Spring</i>	
PSY 210 Child Psychology 3	
This course explores various theories of physical, cognitive, and social-emotional development from infancy through middle childhood. Prerequisites: COM 121 or COM 122, PSY 130 <i>Fall/Spring</i>	
PSY 212 Adolescent Psychology 3	
Adolescence is considered a distinctive phase of human development in this psychology course. The interaction of biological and psychological variables is examined to provide knowledge of the relationship and the manifestation of behavior attendant thereto which tends to occur during the period of adolescence. Theories advanced by major schools of psychology will be studied as well. Prerequisites: COM 121 or COM 122, PSY 130 <i>Spring</i>	
PSY 214 Psychology of Adulthood & Aging 3	
This course is designed to fill the void in knowledge created by the assumption that adulthood is a period of unchanging life, and offers specific information which demonstrates the varying phases adults experience. It directs students to alter their presumptions and assist them in developing skills to recognize variation in adult behavior as symptomatic of phase changes. Prerequisites: COM 121 or COM 122, PSY 130 <i>Fall</i>	

2009-2010 Course Descriptions

Psychology (continued)–Social Science Technology

PSY 216 Psychology of the Exceptional Child 3

A survey of human differences such as learning disabilities, mental retardation, giftedness, physical and emotional impairments, and cultural differences constitute the focus of the course. Cultural and social influence upon children from birth through adolescence will be discussed as they affect cognitive, social, emotional and physical development.

Prerequisites: COM 121 or COM 122, PSY 130
Spring

PSY 220 Mental Health 3

Mental Health focuses on the various forms of adjustment that individuals use to cope with stress, frustration, and pressures. Students will be given an opportunity to improve their coping skills - i.e., dealing with problems in a task-oriented rather than ego-oriented manner. Discussion will be held concerning the use of defenses and secondary gains in the different forms of psychopathology. In Mental Health, humans are viewed holistically as a product of physiological, psychological, social, and cultural factors.

Prerequisite: COM 121 or COM 122
Spring

PSY 225 Behavior Modification 3

The theory and application of behaviorist psychology is the essence of this course. All phases of behavior modification programming as used in human service settings are addressed.

Prerequisite: COM 121 or COM 122
TBA

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.

Prerequisites: COM 121 or COM 122, PSY 130
Fall/Spring

PSY 232 The Addictive Processes 3

The Addictive Processes 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 or COM 122
Spring

PSY 234 Group Dynamics 3

This course presents a broad, integrative overview of group dynamics in a highly interactive format. It is designed to meet the needs of Human Service and other students by introducing them to theory and research findings needed to effectively create and maintain productive groups; and, it helps build skills required to apply that knowledge in real-world situations in the workplace and many other group settings.

Prerequisites: COM 121 or COM 122, PSY 130
Fall/Spring

PSY 235 Social Psychology 3

An analysis of the major thought systems, schools of psychology, and general theories of social psychology.

Prerequisites: COM 121 or COM 122, PSY 130 or SOC 130
Fall

PSY 240 Educational Psychology 3

Educational Psychology is a course designed to give students an introduction to the psychological principles in education. Learning styles, program, and methods will be explored. Educational implications of research on child development, cognitive science, learning, and teaching will be analyzed.

Prerequisite: COM 121 or COM 122, PSY 130
Fall/Spring

PSY 255 Interpreting Lives: Rites of Passage, Personal History, & the Life Cycle (Honors) 3

Same as ANT 255 & HIS 255. See ANT 255 for course description.
TBA

PSY 290 Cooperative Education I Varies

Prerequisite: 27 credits earned in student's program with a 2.0 GPA
All

PSY 291 Cooperative Education II Varies

Prerequisite: 27 credits earned in student's program with a 2.0 GPA
All

PSY 299 Seminar Varies

See Advisor

RESPIRATORY CARE

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 I

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, including arterial blood gas interpretation.

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 212 Pharmacology 2

This course includes the basic principles of pharmacology. Respiratory care drugs will be discussed.

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 227 Respiratory Care II 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.

Prerequisites: RES 200, RES 201, and RES 150 with a grade of "C" or better
Spring

RES 237 Respiratory Care III 3

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 IV 10

This course is designed to cover basic principles as well as more complex principles of critical respiratory care. Topics include a practical understanding of neonatal and pediatric respiratory care, 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 ventilated patients, nutrition of mechanically ventilated patients, pulmonary function regimens, chest x-ray, ECG interpretation, bronchoscopy, long term O₂ therapy, airway care, and mechanical ventilation of critical respiratory care patients.

Prerequisite: RES 237 with a grade of "C" or better
Fall

RES 265 Respiratory Care V 12

The course is a continuation of RES 255 covering more complex principles of respiratory care. Other topics include introduction to home care and a review to help prepare students for their National Board of Respiratory Care (NBRC) examinations.

Prerequisite: RES 255 with a grade of "C" or better
Spring

2009-2010 Course Descriptions

SOCIAL SCIENCE TECHNOLOGY

Course Number	Credit Hours
SST 110 Information Technology for the Social Sciences	3
This course partially meets the needs of the Social Sciences/ 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.	
Prerequisites: COM 050 or COM 051, COM 061 <i>Fall/Spring</i>	

SOCIOLOGY

Course Number	Credit Hours
SOC 120 Organizational Behavior	3
The formal structure of organizations will be considered. The interaction of groups within formal organizational structures will also be covered.	
Prerequisites: COM 050 or COM 051, COM 061 <i>Spring</i>	
SOC 125 The Individual & Society	3
This is a course designed to help students cope with life as well as to acquaint them with the basic theory and knowledge of the social sciences. Information from psychology, sociology, anthropology, political science and economics is integrated to help students comprehend the operation of both their own and other social systems. The course emphasizes the relationship of individuals to these systems. It also encourages the development of attitudes and skills which will result in greater self-determination of life-style for individuals in contemporary society.	
Prerequisites: COM 050 or COM 051, COM 061 <i>Fall/Spring</i>	
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.	
Prerequisites: COM 050 or COM 051, COM 061 <i>Fall/Spring</i>	
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.	
Prerequisites: COM 050 or COM 051, COM 061 <i>TBA</i>	

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 or COM 122 *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 or COM 122, PSY 130 *Fall*

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 *Fall*

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.
Prerequisites: COM 121 or COM 122, SOC 125 or SOC 130 *TBA*

SOC 290 Cooperative Education I **Varies**
Prerequisite: 27 credits earned in student's program with a 2.0 GPA *All*

SOC 291 Cooperative Education II **Varies**
Prerequisite: 27 credits earned in student's program with a 2.0 GPA *All*

SOC 299 Seminar **Varies**
See Advisor

SPANISH

Course Number	Credit Hours
SPA 101 Spanish I	3
This course is designed for beginning Spanish students. It is based on the natural approach to second language acquisition in which comprehension and conversation skills are emphasized. Spanish will be the predominant language spoken in the classroom.	
<i>Fall/Spring</i>	
SPA 102 Spanish II	3
This course is a continuation of SPA 101. In this course, students will expand their knowledge of the language with an emphasis on comprehension, speaking, reading, and writing.	
Prerequisite: SPA 101 or permission of instructor <i>Fall/Spring</i>	

Sociology—Special Education

SPA 201 Spanish III **3**
This is an intermediate course in Spanish. Students will increase their vocabulary and grammar skills as well as refine verbal communication competencies. This level of academics will include an intensive writing program.
Prerequisite: SPA 102 *Fall/Spring*

SPA 202 Spanish IV **3**
This course is a continuation of Spanish III. The focus of this course is to develop a proficiency in this modern language by using literary readings to emphasize the appreciation of Spanish and to better facilitate a comprehension of the culture.
Prerequisite: SPA 201 or permission of instructor
Spring

SPA 299 Seminar **Varies**
See Advisor

*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 is 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 who 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.



2009-2010 Course Descriptions

Special Education—Web

SPECIAL EDUCATION

Course Number Credit Hours

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

Fall/Spring

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 or COM 122, SPE 100

Spring

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 or COM 122

Fall

SPE 225 Accommodating Instructional Strategies for Diverse Learners 3

This course provides techniques for adapting and modifying educational environments to accommodate individual needs of children. Emphasis will be placed on developing strategies to implement and monitor progress of students in working to meet goals of their Individual Educational Plans (IEP). Special attention will be given to developing strategies to work with students who are culturally and linguistically diverse. Twenty hours of participation in a support or inclusive classroom during the semester is required.

Prerequisites: COM 121 or COM 122, PSY 130

Fall

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, SPE 215, SPE 220 (a grade of "C" or better in each course is necessary.)

TBA

THEATER

Course Number Credit Hours

THE 120 Introduction to Theater 3

Introduction to Theater introduces students to the collaboration among playwright, actors, production team and audience. While examining theater as it represents culture, students will see how each of the stakeholders in a production reads a script differently. In addition, students will gain an overview of the research, planning and decision-making necessary to interpret themes on stages for a live audience.

Prerequisites: COM 121 or COM 122 with a grade of "C" or higher

TBA

THE 122 Acting I 3

In Acting I students will explore the basics of acting. They will learn methods of acting used over the centuries to perform monologues, dialogues and ensemble work. They also will analyze their own and their classmates' performances. Through course activities students will practice skills, learn vocabulary and develop techniques to improve their acting ability.

Prerequisites: COM 061 with a grade of "C" or higher

WEB

Course Number Credit Hours

WEB 100 Web Design I -HTML/XHTML 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.

Prerequisites: COM 061, MAT 020

Fall

WEB 115 Web Design II - Dreamweaver 3

This course teaches students to use the industry standard Web design application Adobe 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. At the completion of the course, students will have designed, created, and tested a web site.

Prerequisite: WEB 100

Spring

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, WEB 100

Spring

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 Adobe 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 Adobe 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

Fall

WEB 220 Flash Animation for the Web 3

This course teaches students to use Adobe 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 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

Spring

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

Workforce and Economic Development/ Community Education

Workforce and Economic Development/Community Education

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 25,000 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 and to facilitate advancement in certain occupations and professions
- Providing training for displaced workers
- 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, special activities and cultural events for personal interest and professional development

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 several of our locations. As an option, customized programs may be held at your workplace - on company time or after working hours.

BUSINESS AND INDUSTRY PROGRAMS

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 (IT), 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. The offerings of the Schmidt Training and Technology Center provide customized senior leadership and employee training that adjusts to the unique and changing needs of business and industry employers.

Business Solutions - Training helps senior executives and managers establish the critical links between their people, customers and business profitability to realize and capitalize on 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 Center 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 Cisco, A+ and Net+ 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.

Workforce Development -

Workforce training is designed to prepare entry-level and front-line 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, supervision, communications, teamwork, refresher math, workplace math and computer applications.

*Visit our web site at
www.racc.edu.*

Workforce and Economic Development/Community Education

CULTURAL PROGRAMS

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. A "*gallery talk*" by the artist may be included at the reception or during the exhibition.

EDUCATIONAL OUTREACH PROGRAMS

21st Century

Community Learning Centers

The 21st Century Community Learning Centers Program is a federally-funded collaboration between RACC and the Reading

School District. The program provides after-school and summer programming for over 300 at risk elementary and middle school students and their parents at local schools and neighborhood churches. Student offerings include homework tutoring, intensive reading and math instruction/remediation, enrichment classes (e.g., arts, crafts, computer exploration, cooking, dance, drama, fitness, board games, social studies, science, writing, etc.) and educational field trips. Students are also provided with snacks and a daily hot meal. Parent offerings include ESL, GED and parenting workshops.

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 are offered 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.

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 (GED®) Preparation Program

The GED Preparation Program offers instruction in reading, writing, mathematics, social studies and science to prepare adults, as well as eligible 16 and 17 year old youth, to sit for the General Education Development Test. Classes are free. Day and evening classes are available.

"GED is a registered trademark of the American Council on Education and may not be used or reproduced without the express written permission of the American Council on Education."

General Educational Development Test (GED®)

The GED 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 GED test are completed in person at RACC's Schuylkill Hall (third floor). **Payment is required at the time of registration.**

To earn a GED, 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

The Standard Evening High School Program offers classes in English, mathematics, social studies, science, and physical education for adults, high school students lacking sufficient credits and disruptive students who have been removed from daytime classes.

Students meeting high school graduation requirements are awarded a diploma by the Reading School District.

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

The Even Start Family Literacy program is a state-funded partnership between RACC and the Reading School District. The program serves parents and their children, 3 through 7 years old. Parents can learn English while their children attend early childhood education classes. Parents also learn parenting skills and how to help their children succeed in school.

OCCUPATIONAL PROGRAMS

Career Preparation

Career Preparation provides non-credit certificate training. These medical and business programs are designed to prepare adults for entry or re-entry into the job market.

Certificate programs offered through the Career Preparation program are: CNA (Certified Nurse Aide), Dental Assistant/

Workforce and Economic Development/Community Education

Chairside Assistant, Diagnostic Technician with Phlebotomy, Certified Home Health Aide, Medical Insurance & Billing Specialist, Medical Office Assistant, Medical Receptionist, Medical Secretary, Medical Transcription, Veterinary Assistant, Administrative Assistant, Junior Accountant, Office Assistant with Computer Applications and Computer Applications.

Students must have their high school diploma or GED prior to admission. (The Certified 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 federal and state grants and for loans. Please call 610.375.8188 for more information.

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 vary 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.

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.

Vocational/Technical

Evening classes in vocational technical education are held at Reading-Muhlenberg Career & Technology Center in the fall and winter/spring. These hands-on classes are helpful in obtaining applied knowledge and

skills in a variety of vocational and technical disciplines.

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.

Take a look at the following list to discover the realm of courses 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 course or program to suit your needs. Give us a call at 610.607.6232.

COURSES OFFERED BY RACC'S WORKFORCE AND ECONOMIC DEVELOPMENT/ COMMUNITY EDUCATION DIVISION

Senior Leadership & Workforce Development

Creating Alignment™
Critical Thinking & Problem Solving Development
Engineering Systems
Executive Coaching - Leadership
Extrusion of Engineering Plastics
Kaizen
Lean Thinking
Practical Rheology
Process Improvement
Project Management
PVC Rheology & Processing
Reliability Centered Maintenance
Reverse Logistics
Root Cause Failure Analysis
Six Sigma
Tools for Profit™
Total Predictive Maintenance (TPM)

Manufacturing Technology

Technical Core Modules
Blueprint/Graphics for the Workplace
Foundations of Quality
Microcomputers in the Workplace
Workplace Communications
Workplace Mathematics
Workplace Physics
Workplace Readiness

Technical Specialty Modules

Computer Control Technology
Computer Integrated Manufacturing
Electrical Control Wiring Systems
Electrical Motors (AC/DC)

Electronic Drives
Extrusion of Engineering Plastics for Manufacturing & Process Engineers
Human Machine Interface
Hybrid and Batch Control
Industrial Controls (Basic & Advanced)
Integration Standards (S88/S95)
Manufacturing Process
Mechatronics
Motion Control
Network Fundamentals
PC Based Control
Plastics Technology
Power Distribution Systems
Practical Applications for Melt Rheology in Polymer Processing
Process Control
Programmable Controllers (Basic & Advanced)
PVC Rheology & Application in Extrusion
Quality Assurance
Robotics and Computer Programs
Safety and OSHA
Specialized Control Operations (Vision, Bar Code, RFID, etc.)
Troubleshooting Industrial Control Systems
Troubleshooting Practices
Understanding Plastics Materials for Extrusion & Molding
Information Technology
Certifications
A+ Core Hardware Service Technician Certification
A+ Operating System Technology Certification

Cisco Certified Network Administrator (CCNA)
Net+ Network Certification

Software Training

Adobe Photoshop
Adobe Dreamweaver
Microsoft Access
Microsoft Excel
Microsoft FrontPage
Microsoft Office Suite
Microsoft Outlook
Microsoft PowerPoint
Microsoft Publisher
Microsoft Word
Oracle Database
QuickBooks Pro
SQL
SQL Database
Visual Basic
Website Design and Maintenance

Hardware Training

Practical Network Cabling Systems
Residential Cabling
Voice Over IP (Internet Protocol)
Wireless Networking Technologies

Workplace Readiness

Communication Skills/Personal Effectiveness
Computer Concepts, Applications, & Skills
Personal Effectiveness/Team Approach
Refresher Math
Workplace Mathematics

Workplace Literacy

Communication Skills
Literacy (ESL/GED)
Math Skills
Spanish in the Workplace

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

Blueprint Reading
Electrical Apprentice
Machine Tool Technology
Welding (Oxyacetylene & Electric Arc)

Philosophy, Vision and History

Philosophy, Vision and History

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.

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

Philosophy, Vision and History

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 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 year also marked the retirement of the president of 17 years, Dr. Gust Zogas. The Board of Trustees named Dr. Richard Kratz, former vice president/dean of academic affairs, the fourth president of RACC. The College also hired its first director of information technology to carry out a 3-year plan to update computer and phone systems.

In 2005 the continuing education department, now known as the division of Workforce and Economic Development/Community Education, centralized in Schuylkill Hall, which previously bordered the campus as part of the Penske Corporation. The non-credit arm of the College had been housed in several locations throughout the city and county, so the centralization was intended to provide efficiency and convenience for its students.

In the spring of 2006, the Schmidt Training and Technology Center (TTC) celebrated its grand opening. The project was funded by the College's second successful capital campaign with the intent of providing training for area business in advanced manufacturing skills, information technology, market knowledge, executive senior leadership, business performance and workforce readiness.

The year of 2006 also brought major change to the campus. In addition to the opening of the TTC, the College began construction on the Miller Center for the Arts, a 500-seat theatre, which officially opened in June of 2007. The Yocum Library celebrated its 10th anniversary in 2007 and the College began transitioning from a 10-week term system to a 15-week semester system.

In June of 2007, the College welcomed Dr. Anna D. Weitz as its fifth president. She was officially installed at an October Inauguration ceremony that was preceded by a weekend of celebratory activities.

In August of 2008, the College officially began a 15-week semester system and also that fall adopted a new Mission statement.

ADMINISTRATION

ANNA D. WEITZ, President; D.Ed., The Pennsylvania State University; M.Ed., University of Albany; B.A., Boston University
 GARY E. RIZZO, Senior Vice-President of Academic Affairs/Provost; Ph.D., The University of Pittsburgh; M.S., Case Western Reserve University; B.S., Gannon University
 THEODORE BASSANO, Senior Vice-President of Business Services/Treasurer; M.S.Ed., Elmira College; B.A., State University of New York at Binghamton
 DIANE M. MARABELLA, Senior Vice-President for Enrollment Management/Student Development; 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
 WENDY BONN, Assistant Professor; M.B.A., Hofstra University
 MARK S. CHESTER, Assistant Professor; J.D., Villanova University School of Law; B.S., University of Lowell
 ELIZABETH DENTZER, Instructor; M.Ed., Temple University; B.S., Alvernia College; A.A.S., Reading Area Community College
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Jill Crammer, B.S.
Kenneth Dearstyne, M.B.A., CMA
Margaret Esterly, M.B.A.
Jose Fabiani, M.S.
James P. Flannery, B.S.
Anna Hehn, M.B.A.

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Ronald Maras, A.A.S.
Paula Mazurkiewicz, M.B.A.
Curtis Minich, M.S., M.A.
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Emily Morad, M.A.
Dennis Moyer, Nat'l Rest. Assoc. Cert.
Robert Orzechowski, MBA

Dolores Peterson, MBA
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John Roberts, B.S.
Mary Schweitzer, A.A.
John Shimp, J.D.
Kim Stahler, M.S.L.S.

HEALTH PROFESSIONS ADJUNCT FACULTY

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Kristine Danner, B.S.
Anthony Lorenzo, M.A., B.A.
Paul Melniczek, A.A.S.
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Elissa Sauer, M.S.N., R.N.
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Annelle Soponis, Ph.D.
Jerry Theodossiu, F.I.S.T.D.

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Karen Frey, M.H.A., M.H.Ed., R.N.
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Lynne Pancoast, M.S.N., R.N.
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Shannon McNear, B.S.N., R.N.

Medical Laboratory

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Jessica Cornett, B.S.
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Linda Miller, B.S., M.T. (A.S.C.P.)
Sandra Neiman, M.A., M.T.
Michelle Reed, M.L.T. (ASCP)

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Tara Kramer, R.R.T

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Patricia Cavanaugh, M.A.
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Cheryl L. Coldren	Kathleen Moul, B.S.	Lois Vedock, M.S.
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Jeanette Boice	Jan-Michael Johnson, M.H.S.	Patricia Parks, M.Ed.
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Community Education Adjunct Faculty

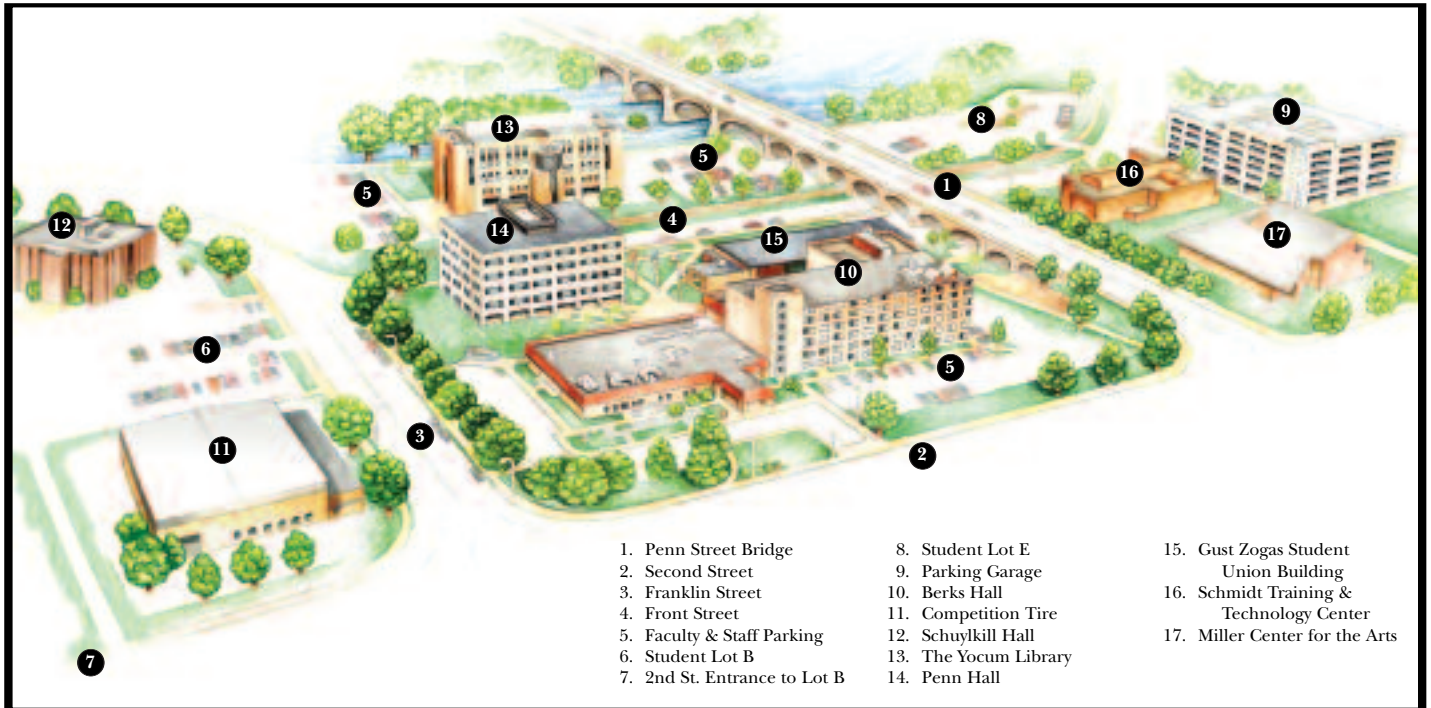
The Community Education Division of the College serves approximately 10,000 to 12,000 non-credit students each year by offering a wide variety of courses from many different disciplines. The adjunct faculty who teach for this Division have diverse educational backgrounds and experiences which qualify 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.

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Campus Map



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 April, 2009.

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A stained glass window with a complex geometric pattern of black leaded glass panes. The panes contain various colors and textures, including yellow, green, red, and brown, some with a cracked or marbled appearance. The window is set against a dark background.

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