

College Catalog 2013-2014

**Holyoke
Community College**

Welcome to Holyoke Community College



Established in 1946, Holyoke Community College is the Commonwealth's oldest public two-year college. Located just off I-91 on a beautiful 135-acre campus, HCC has a proud tradition of offering our students an affordable education of the highest caliber.

There is nothing quite like the energy and diversity of a community college: come to HCC and you'll meet dual-enrolled high school students, recent high school grads, adults returning to college, veterans and active duty personnel and lifelong learners exploring a new interest. Students come to HCC to train for immediate entry into the workforce, prepare for transfer to a four-year college or university, learn skills to advance their career or grow their business, or simply for the joy of learning.

What they discover is what makes me enormously proud of HCC: caring faculty and staff, small classes, individualized attention and a focus on student success that enables our students to thrive.

I invite you to visit and learn firsthand what makes HCC special. I know that once you meet us you won't be able to imagine yourself anywhere else.

I look forward to seeing you on campus!

Sincerely,

A handwritten signature in cursive script that reads "Bill Messner".

Accreditation Statement

Holyoke Community College is accredited by the New England Association of Schools and Colleges. The College has received the endorsement of the Massachusetts Department of Education and the Massachusetts Board of Higher Education and is a member of the American Association of Community College Council.

It is the policy of Holyoke Community College not to discriminate on the basis of sex, creed, color, race, sexual orientation, age, national origin, or disability in its educational programs, activities, or employment policies as required by Title IX of the 1972 Education Amendments and other Federal and State anti-discrimination laws. Inquiries regarding compliance with Title IX may be directed to Title IX Coordinator Idelia Smith, Affirmative Action Officer at Holyoke Community College, 303 Homestead Avenue, Holyoke, MA 01040, or telephone (413) 552-2770.

The Holyoke Community College Catalog contains current information regarding areas of study, career opportunities, student services, and admissions. However, it is not intended to be, and should not be, relied upon as a statement of the College's contractual undertakings. The Holyoke Community College Board of Trustees and the Massachusetts Board of Higher Education reserve the right to alter the College's academic policies, procedures, course offerings, and fees as set forth in this catalog.

Accreditation by the New England Association of Schools and Colleges is not partial but applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding the status of an institution's accreditation by the New England Association of Schools and Colleges should be directed to the administrative staff of the school or college. Individuals may also contact the association:

New England Association of Schools and Colleges
3 Burlington Woods Drive, Suite 100
Burlington, MA 01803-4531
(855) 886-3272; NEASC.Org

Massachusetts Board of Higher Education
One Ashburton Place, Room 1401
Boston, MA 02108-1696

The information contained in this catalog is available in other formats for those who require an accommodation.

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Estudiantes cuya lengua natal sea español y cuyo nivel de comprensión del idioma inglés sea limitado, deben referirse a la página 14 para más información.

All policies related and relevant to College Standards can be found in the Student Handbook.

The information contained in the college catalog was checked for accuracy at the time of printing. Changes in college policy and the requirements of Areas of Study are made regularly which could make some of this information obsolete before the next catalog revision. Students should review revisions that are announced each semester in the schedule booklet and check with academic advisors to ensure the current accuracy of important information.

In the event of typographical errors, the information formally approved by the college and on file will take precedence over the catalog.

MISSION STATEMENT

Holyoke Community College's mission is to serve the Pioneer Valley by providing comprehensive, high-quality educational opportunities that are responsive to community needs and meet the intellectual, esthetic, and practical needs of a diverse student body. The college offers the full range of programs and services appropriate to a community college, as defined by the Massachusetts Board of Higher Education's generic system-wide community college mission statement. In addition, the college will continue to focus upon the following strengths that distinguish Holyoke Community College from other colleges.

Since its inception over half a century ago, the college has excelled at serving transfer-oriented students and is today widely recognized for the quality of its liberal arts, fine and performing arts, and career transfer programs. Building upon this strength is a major goal of the institution. The college values its leadership position in the development and implementation of collaborative transfer and joint admissions programs with public and private four-year colleges and universities in the region. The college will continue to offer one of the broadest arrays of exemplary transfer options in the system, making it an exceptional avenue of access to the Commonwealth's flagship university and other public and private colleges in the area.

Holyoke Community College is committed to career programs responsive to the economic and social needs of the region. A wide range of career-oriented programs, in areas such as business, health, and technology, are designed to prepare students to enter and advance in their chosen field. Through active collaboration with industry, government, and community groups, the college constantly increases the strength, currency and variety of its programs. All areas of study provide a basis for transfer, since all Associate Degree programs include a common core of courses designed to expose students to diverse fields of knowledge.

At Holyoke Community College, concern for the success of the individual student is paramount, an institutional quality that is widely recognized in the community and that permeates every program and service. Holyoke Community College's innovative approach to student success is reflected in the culture of the institution, as demonstrated by campus facilities, the wide variety of service delivery methods, and the assortment of services to address the specific needs of individual students and groups of students.

As a learning-centered institution, the college encourages and supports a contemporary assortment of instructional strategies. These include interdisciplinary courses, Learning Communities, experience-based education, community service learning, self-paced learning, web-based instruction, distance learning, and the use of instructional technology in a full range of subjects and at instructional levels ranging from pre-college to honors level offerings.

Serving an economically, educationally and linguistically diverse population, the college has a special commitment to public school partnerships and adult literacy. Holyoke Community College is the site for vital educational opportunity programs, such as Gateway to College, and houses the regional center for a System for Adult Basic Education Support for Western Massachusetts.

PHILOSOPHY OF THE FIRST YEAR

Holyoke Community College intentionally cultivates a foundation for college success. The college community is committed to helping new students:

- successfully transition to college;
- access resources and support services;
- explore and identify academic, career, and personal goals;
- understand academic expectations and apply strategies for academic success; and
- enhance core competencies: critical thinking, quantitative reasoning, information literacy, effective communication, and knowledge of diversity.

GENERAL INFORMATION

ADMISSION TO THE COLLEGE

Holyoke Community College is a public institution of higher education with an open admission policy. General requirements for admission to a degree or certificate program include a high school diploma, General Education Development certificate (GED), or completion of an approved home schooling program. Students must be beyond the age of compulsory school attendance in Massachusetts (16 years old). Home schooled students should refer to the Home School Policy for additional information.

In addition to general requirements, some academic programs require additional application materials. These programs include but are not limited to Nursing, Practical Nursing, Radiologic Technology, Graphic Design, Medical Assistant Certificate, Medical Coding, Culinary Arts, and Veterinary Technician. Please review individual program pages in the catalog and visit www.hcc.edu/admissions for specific program applications.

Coursework for most programs begins each fall, spring and/or summer. Please review the catalog or www.hcc.edu for more information on program start dates.

All applicants to Holyoke Community College are encouraged to meet with an Admission Counselor to discuss program choices and requirements. New applicants should attend an HCC Welcome Wednesdays! information session that includes career planning, choosing a major, and a campus tour. Sessions are held weekly at 10:00 a.m. and 2:00 p.m. and can be scheduled by email to admissions@hcc.edu or by calling (413) 552-2321.

APPLYING TO HOLYOKE COMMUNITY COLLEGE

1. Review the admission and academic requirements for your program of choice. Some programs require special admission procedures and/or prerequisite course work.
2. New applicants are encouraged to schedule a college tour and plan to speak with an admissions counselor at **Welcome Wednesdays!** information session. These sessions include admissions, career and college counseling and a tour of the HCC campus. These sessions are held weekly at 10:00 a.m. and 2:00 p.m. and last about an hour. To RSVP, please contact the Admissions Office at (413) 552-2321 or email admissions@hcc.edu.
3. Complete the Holyoke Community College admissions application. Mail application to: Holyoke Community College, Admissions Office, 303 Homestead Avenue, Holyoke, MA 01040.
4. Applicants should have official high school/home school/GED and college transcripts mailed to: Holyoke Community College, Admissions Office, 303 Homestead Avenue, Holyoke, MA 01040.
5. Once your application file is complete, you will be notified of your status and how to proceed. Placement testing is required of all first-time students unless appropriate transfer credit is awarded in English and Math*. Students seeking readmission to HCC may be required to complete the placement test based on the amount of time outside of the institution.
6. Once you are accepted into a program, you will follow program guidelines as outlined in the catalog. Subsequent changes to the academic program requirements in the future will not affect your program requirements.
7. Students previously convicted of a felony may not be eligible for professional licensure in certain programs. See the college catalog for more information on this policy.

8. Drug testing MAY be mandatory for selective academic programs.
9. For students intending to carry nine or more credits, documentation for the following immunizations is required by Massachusetts law: Three Hepatitis B, two measles, one mumps, one rubella and tetanus/diphtheria in the last ten years. Some programs may require immunizations for all students regardless of credit load.

Applicants may self-certify fulfillment of admission requirements on the application form. Current high school seniors must certify after high school graduation. HCC reserves the right to request official documentation from applicants. Applicants wishing to matriculate into a college program and receive federal and state financial aid. Applicants must fulfill general admissions requirements (high school diploma, GED, or completion of an approved home schooling program).

For all applicants under eighteen years of age, a parent/legal guardian signature is required.

TRANSFER PREVIOUS CREDIT TO HCC

To transfer credits from accredited colleges and universities, please forward official transcripts to the Admissions Office. Note: Those with prior bachelor's or master's degree and above may be restricted from certain federal and state financial aid programs. Please check with Financial Aid.

INTERNATIONAL STUDENTS APPLICATION PROCESS

Holyoke Community College is committed to enrolling a diverse group of men and women whose backgrounds and talents enhance each others' educational experience. Students at HCC are afforded many academic and personal growth opportunities. International students seeking an F1 student visa should refer to the International Student Application at www.hcc.edu/admissions for admissions policies procedures and deadlines.

EARLY ADMIT PROGRAM

The Early Admit program offers juniors and seniors enrolled in a high school or a home school program the opportunity to enroll in college courses prior to high school graduation. Admission into this program is competitive. The program offers a unique true-to-life college academic experience, allowing high school students to focus on courses that will transfer to most two-year and four-year public and private colleges while completing their high school requirements. Students are enrolled in either a part or full-time high school course load and college level courses. Students participating in Early Admit are considered HCC students, and as such, will be awarded the same privileges as HCC students.

Students participating in the Early Admit program will pay current tuition and fees, unless funding is available. Applicants are responsible for all costs associated with their education which may include books, lab fees, materials and transportation. Current high students are ineligible for financial aid. Current tuition and fees are available at our website at www.hcc.edu and are subject to change.

Early Admit students will meet with their HCC advisor to register for their individual classes and throughout the semester, as needed. Students may enroll in a maximum of 16 credits each semester. A student whose semester GPA falls below 2.0 during any one semester will be ineligible to continue in the Early Admit program. Students must comply with all HCC policies.

When a semester has been successfully completed, students will earn college credits, which may be transferable to most two- and four-year public and private colleges or universities. Students may also receive credit from their participating high schools to meet high school graduation requirements. Priority will be to place students in courses required by their high schools for graduation. Students are responsible for ensuring that HCC course work will be acceptable for high school graduation through their Guidance Counselor. If you have a disability and may require accommodations in order to participate fully in program activities, please contact the Admissions Office at (413) 552-2321.

Read the catalog online at www.hcc.edu/catalog

EARLY ADMIT APPLICATION PROCESS

The Early admit application is available at www.hcc.edu/admissions.

Early Admit applications are due no later than June 30th for fall and December 1st for spring enrollment. All applicants must submit an official high school transcript and will require both parent/guardian and guidance counselor approval prior to the application deadline. Placement testing is required for all HCC Early Admit applicants. Testing will take place at Holyoke Community College. Applicants must meet all prerequisite requirements for selected courses.

HOME SCHOOL APPLICANTS

Home schooled students, without a high school diploma or GED, are eligible to apply for admission to a degree or certificate program provided they have successfully completed an approved home schooling program in accordance with Massachusetts General Laws or the laws of their home state. Home school applicants shall submit a letter from the school superintendent (on official letterhead with the high school seal) indicating approved education plan and stating date of graduation and/or completion of high school or home school education. Applicants under the age of compulsory school attendance must see the Dean of Enrollment Management for additional information regarding the enrollment process and consideration factors relating to course and program participation.

Under these programs students are conditionally accepted into these schools provided that you have earned an associate degree or accumulated 60 credits hours at Holyoke Community College with a minimum cumulative grade point average (American International College 2.0 GPA, Western New England College 2.3 GPA, Elms College 2.5 GPA, Springfield College 2.5 GPA, and Bay Path College 2.0 GPA). Each school has established merit-based financial aid packaging based upon the student cumulative grade point average. For further information please contact the Transfer Counselor (Frost 221) at (413)552-2498.

MCAS (MASSACHUSETTS COMPREHENSIVE ASSESSMENT SYSTEM)

For those applicants attending Massachusetts's public high schools (Class of 2003 and beyond), final acceptance to HCC is contingent upon fulfillment of MCAS graduation requirements. Please contact the Admissions Office for more information at (413) 552-2321.

RESIDENCY STATUS

The Department of Higher Education for Massachusetts Colleges has established the following residency classifications:

IN-STATE STATUS

U.S. citizen or permanent resident who has lived in Massachusetts for at least six continuous months prior to the first day of the semester for which they apply and who intend to continue living in Massachusetts indefinitely.

NEW ENGLAND REGIONAL STUDENT PROGRAM STATUS (NERSP)

U.S. citizen or permanent resident who has lived in one of the New England states for at least six continuous months prior to the first day of the semester for which they apply, and meets NERSP program requirements including those relating to the student's program of study and the distance from the student's residence to the college (determined by the Admissions Office) Students meeting these criteria may qualify for NERSP eligibility.

OUT-OF-STATE STATUS

U.S. citizen or permanent resident who does not reside in Massachusetts or who has lived in Massachusetts less than six continuous months prior to the first day of the semester for which they apply.

CHANGE IN RESIDENCY STATUS TO MASSACHUSETTS RESIDENT STATUS

A student originally registered under the Out-Of-State Status or New England Regional Student Program Status (NERSP) who qualifies to change their residency status with the college may do so through the Admissions Office. Proof of permanent residency in Massachusetts and effective date are required. More information may be obtained at the Admissions Office (Frost 221).

(CORI) CRIMINAL OFFENDER RECORD INFORMATION / (SORI) SEX OFFENDER REGISTRY INFORMATION

Students will be subject to a CORI and SORI check for certain programs in which clinical, field, or other practical experience working with vulnerable populations is a required part of the program, including, but not limited to, Deaf Studies, Nursing, Radiologic Technology, Education, or Medical Assistant. The results of this report may or may not disqualify a student from completing a program. Specific details and a complete copy of the college policy can be found in the current edition of the Student Handbook.

STUDENTS WHO WISH TO REAPPLY FOR ADMISSION

Applicants who have previously attended HCC must submit another application for admission. Official high school or college transcripts may be required if more than two years has passed since first applying and/or an applicant is intending to transfer additional college credits to Holyoke Community College.

PLACEMENT ASSESSMENT

Holyoke Community College assesses all newly admitted students before they schedule classes for their first semester of study. The purpose of these required tests is to assess achievement in the basic skills of reading, writing, and mathematics. Students who do not demonstrate college-level basic skills are required to take developmental courses that are designed to improve the skills needed to be successful in college. The Admissions Office notifies students of the dates and locations of placement tests after they are admitted to the college. No credit toward graduation is awarded for developmental courses.

If a student's English or Math placement test scores are more than two years old, and the student has not been enrolled in a related math or English course, a retest is required.

(PHS 101 IS NO LONGER A PRE-REQ FOR PHS 111)

ADVANCED PLACEMENT EXAMS/CREDIT BY EXAMINATION

National Examinations

HCC grants credit for sufficient scores on certain Advance Placement and College-Level Examination program (CLEP). An official score report must be sent directly from the testing agency to HCC's Welcome Center. The Student Records Office can provide more information on minimum score requirements and credit awards at registrar@hcc.edu. Some CLEP tests are offered at HCC High Stakes Testing Center. For a complete listing, please call 552-2112.

Student Right-to-Know Graduation and Transfer Rates

The federal government mandates that all institutions participating in Title IV or HEA programs disclose to current and prospective students graduation and transfer-out rates of first-time, full-time, degree/certificate seeking (FTFTDS) students. In compliance with these mandates, HCC followed 1,431 first-time, full-time students who enrolled in one of HCC's degree or certificate programs in Fall 2009. As of Fall 2012, 18 percent of these students had graduated; 16 percent transferred to another institution prior to graduating from HCC; and 15 percent are still enrolled at HCC. In sum, 49 percent of the first-time, full-time degree/certificate seeking college students entering HCC in Fall 2009 have, as of Fall 2012, graduated or continued their studies at HCC or at another public or private university in the United States. Rates are based on status at 150 percent "time-to-credential" (i.e. 1.5 years for certificates and 3 years for degrees).

Graduation and transfer-out rates disaggregated by gender, race/ethnicity and financial aid received can be found online on the Consumer Information page of the HCC website, www.hcc.edu.

EXPENSES

The estimated annual cost of attendance at Holyoke Community College is \$5,823.00 for a full-time Massachusetts resident carrying 12 semester hours per term. Included in this estimate are tuition, health insurance, fees, books, and supplies. Transportation and personal expenses, such as meals in the college's cafeteria, will vary for each student. Also, students intending to enroll in specialized areas of study such as music, hospitality management, and health or child-related studies will incur additional expenses for applied music lessons, uniforms, special supplies, and health/physical examinations.

Tuition (\$288 per semester - 12 credits)	\$576
Student Service Fee (\$20 per semester)	\$40
Transportation Fee (\$20 per semester)	\$40
Technology Fee (\$55 per semester)	\$110
Health Insurance (Annual)	\$1,603
Educational Services Fee (\$1,404 per semester)	\$2,808
Books and Supplies (Annual)	\$1,200
ESTIMATED ANNUAL COST	\$5,823

Tuition, Fees and Charges*

Application Fee (non-refundable)

Massachusetts Resident	No Charge
Out-of-state Resident	No Charge
International	\$100

Advance Payment/Non-refundable Deposit (per semester)

Massachusetts Residents and Out-of-state Residents	No Deposit
International Students	No Deposit

Tuition (per semester, 12 credits)

Massachusetts Resident	\$288
Massachusetts Resident/per credit	\$24
Out-of-state Residents and International Students	\$2,760
Out-of-state Residents and International Students/per credit	\$230

Health Insurance (per year)

\$1,049

Educational Services Fee (\$1,404 per semester)

\$117 per credit

Distance Learning Fee(\$10 per credit) (Fully on-line courses only)

CEM Fee (Course, Equipment & Materials) (\$50 per course, if applicable, max \$100 per semester)

Designated courses only.

See course registration information

Music Fee

for 50-minute private lessons	\$612
for ½-hour private lessons	\$357

Transportation Fee (per semester)

\$20

Student I.D. Card Replacement Fee

\$7

Bus Pass Replacement Fee

\$7

NSF Check Fee

\$20

Late Registration Fee

No Charge

Late Payment Fee

\$20

*All tuition, fees, and expenses are subject to state and legislative action; that and other circumstances may require adjustments in the tuition and fees stated in this catalog. Registering students should be aware that fiscal challenges facing the college for the 2013-2014 year may require increases to the amounts listed. The college reserves the right to make such adjustments in these charges as may from time to time be required by the Board of Higher Education or the Board of Trustees. Students acknowledge this reservation by submitting applications for admission or by registering for classes.

TUITION PAYMENTS

Payments may be made by check or money order payable to Holyoke Community College, or may be charged to VISA, MasterCard or Discover in person at the college's Student Account Services. Please forward all payments to:

Holyoke Community College
ATTN: Student Account Services, Frost 201
303 Homestead Avenue
Holyoke, MA 01040-1099

Online payments by personal check or credit card can be made by logging onto HCC's Online Services at www.hcc.edu.

Holyoke Community College reserves the right to cancel a student's class schedule, at any time and without prior notice, if payment of tuition and all fees is not received by the due date on the student's bill.

TUITION AND FEES* REFUNDS (see registration booklet for summer refund schedule)

A course Withdrawal, College Withdrawal or Add/Drop form must be completed to receive any refund. Refunds are based on the date the form is received, regardless of registration date or attendance.

Full-term:

- | | |
|--|---|
| 1. Prior to and including the first week of classes: | 100% of tuition/ESF/fees |
| 2. During the second week of classes: | 50% of tuition/ESF only |
| 3. After the second week of classes: | No refund (outstanding balance due in full) |

Short-term (beginning week one of the semester):

Consistent with full-term

Short-term (beginning week two or later of the semester):

- | | |
|--|---|
| 1. Prior to and including the first 3 business days of the session (including the first day of class): | 100% of tuition/ESF/fees |
| 2. During the 4th and 5th business days from (and including) the first day of class: | 50% of tuition/ESF only |
| 3. Anytime after #2 above: | No refund (outstanding balance due in full) |

¹ ESF = Educational Service Fees

The following fees are not refundable after the first week of classes, as published in the academic calendar:

- Student Services, and Technology Fee, Transportation Fee, and CEM Fee.
- The HCC Monthly Payment Plan enrollment fee is non-refundable in conjunction with withdrawal from the college at any time, including prior to the start of the semester.

***Collection Costs: Past due accounts referred to collection agencies will be charged legal fees, plus collection company fees and other costs. Collection costs can be as high as 40% of the past due balance. In addition to a collection agency, unpaid accounts will be referred to the Massachusetts Department of Revenue for tax intercept.**

Read the catalog online at www.hcc.edu/catalog

TUITION EXEMPTIONS

Elders

Persons 60 years old or older may attend Holyoke Community College on a space-available basis for \$50 per semester (credit classes only). Non-credit classes are charged at the catalog rate. See Senior Waiver under Special Programs and Services.

National Guard

Massachusetts residents who are members in good standing of the National Guard are eligible for a tuition and fees waiver for credit bearing classes. Students are responsible to pay for all additional course fees (i.e. music lessons, nursing fees, etc.). The Veteran Services Coordinator in the New Directions office (Frost 232, 552-2346) can provide further information.

Veterans

Eligible veterans, reservists, disabled veterans, and dependents of veterans may qualify for educational benefit from the Veterans Administration. Certain eligible veterans residing in Massachusetts are also entitled to a tuition waiver for credit classes. Students with tuition waivers are responsible for all fees other than tuition. The Veteran Services Coordinator in the New Directions office (Frost 232, 552-2346) can provide further information about veteran waivers and benefits.

Other Categorical and Non-Categorical Tuition Waivers

All Native American, Massachusetts Rehabilitation Commission, Massachusetts Commission for the Blind, and State Tuition Remission waivers must be received by the Student Accounts Office (Frost 201) before the first day of the semester.

FINANCIAL AID

The vast majority of financial aid funds at Holyoke Community College come from federal and state programs for which eligibility is need-based. A student must reapply for this aid each academic year. State-funded programs require the student (and parent) to have been Massachusetts residents for at least one year before the start of the school year. All awards are subject to the availability of funds and changes in federal, state, and college regulations, policies and procedures.

How to Apply

Financial aid applicants are required to annually submit a properly completed Free Application for Federal Student Aid (FAFSA) for the appropriate school year. This federal application can be submitted electronically through FAFSA on the Web (www.fafsa.gov). Applicants are welcome to use the self-service computers in the lobby of HCC's Financial Aid Office (Frost 201) to submit the application.

In order to meet both the HCC and the State MASSGrant deadlines, the student's Free Application for Federal Student Aid must reach the federal processor before May 1 for the school year starting in September. If an applicant is selected for verification by the federal processor or by the college, s/he must submit other supporting documents, such as Verification Worksheets, directly to the HCC Financial Aid Office. To receive the best possible aid award, these additional documents should be submitted by June 30.

If a student misses the May 1 priority deadline, s/he should apply as soon as possible thereafter in order to receive the best possible aid package, even if not starting school until the following spring. In addition to completing the general financial aid application requirements described above, applicants should:

- **PROMPTLY** respond to all requests for additional information. (Preferably by June 30)
- **GET ADMITTED** to a degree program or to an eligible certificate program*.
- **PREREGISTER** for courses as early as possible. (Returning students should register by June 30)
- **SIGN AND RETURN** all award letters offering aid.

*Not all certificate programs are eligible for financial aid.

Additional information is available in the Financial Aid Office, Frost 201.

AWARD PACKAGING POLICIES

Holyoke Community College uses a form of **"EQUITY PACKAGING"** to award financial aid funds. Students currently receive GRANT AID totaling \$6,400 less the dollar amount of their expected family contributions (EFCs). The EFC is determined according to a federal formula based on the FAFSA application data and is reported to the family via the resulting "Student Aid Report." Thus, a fully eligible full-time student with an EFC = \$0 would be awarded the following grants:

\$5,550	Federal Pell Grant
\$200	Federal Supplemental Educational Opportunity Grant
\$432	Financial Aid Tuition Waiver
\$218	Mass Furcolo Access Grant

To receive the amounts described above the student needs to apply on time and also be eligible for both federal and state financial aid.

Three-quarter-time and half-time students are packaged with grants that are three-quarters and one-half of the amounts packaged for full-time students with the same EFC. Their direct costs also proportional to enrollment status.

Since grants often exceed the cost of tuition, fees and books, the excess funds are available to help with out-of-pocket expenses such as room and board, lunches, transportation, and daycare.

If a student does not qualify for enough grant aid to cover direct costs, educational loans are offered to cover the shortfall. The Financial Aid Office awards subsidized and/or unsubsidized **FEDERAL DIRECT STAFFORD LOANS** in the amount each applicant is expected to need to cover the typical balance of tuition, fees, books and supplies not covered by grant aid. Students who need to borrow additional loan funds for other educationally related expenses (transportation, living expenses, daycare, etc.) are asked to complete a Loan Request form in the Financial Aid Office.

To limit or avoid reliance on loans, students are urged to seek private scholarships, trim unnecessary expenses from their budgets, and consider limited part-time work, any available payment plans, or reduced enrollment.

All Federal Direct Stafford Loan applicants must have a completed financial aid file. In addition, all first-time borrowers at HCC must sign a promissory note and complete an on-line entrance interview at www.studentloans.gov in order to ensure that their rights and responsibilities as student loan borrowers are understood.

FEDERAL WORK-STUDY (FWS) is awarded to high-need students who meet the HCC priority deadline and indicate an interest in jobs on their Free Application for Federal Student Aid.

The following awarding policies are also followed:

1. Federal SEOG's are normally restricted to students with EFCs = \$0.
2. Less-than-half-time students are normally restricted to Federal Pell Grants.
3. College-based grants based on need are not reduced for private scholarships unless required by regulations.
4. Aid for students with Bachelor Degrees (or higher) is restricted to loans and work-study.
5. Students simultaneously enrolled in high school and HCC are not eligible for any financial aid.
6. Students cannot receive financial aid for audited courses or courses the student never attended.
7. Financial aid can only pay for up to 30 credits of remedial/developmental coursework.

The college reserves the right to adjust awards due to changes in students' eligibility or the availability of funds.

BOOK VOUCHERS

A student who has expected financial aid that exceeds his/her tuition and fee charges is automatically issued a financial aid book voucher for the HCC bookstore. Approximately 3 weeks before the start of a semester, a student's eligibility for the book voucher

is calculated based on the student's billed charges minus pending financial aid. Once calculated, the book voucher is posted to the student's account and electronically forwarded to the bookstore. The amount of the book voucher can be viewed on the student's record on the HCC on-line services ("MY HCC"). To use the voucher, the student goes directly to the bookstore with his/her class schedule and student ID. Books can be purchased with the voucher through the first 3 weeks of the semester. After the 3-week period, the bookstore notifies the school's Student Accounts Office of the actual amount of book charges that should be placed as a charge on the student's account.

If a student uses his or her book voucher to purchase books, the student is considered to have authorized the use of financial aid funds to pay these expenses and no additional written authorization is required.

SATISFACTORY ACADEMIC PROGRESS

For most federal and state financial aid programs, students must meet both a qualitative and quantitative standard of academic progress.

Qualitative GPA Standard

Cumulative Grade Point Hours	Required Cumulative G.P.A.*
Below 9	N/A
9-30	1.75
Above 30	2.0

*The financial aid GPA is computed using grades received for all HCC courses including developmental courses and courses taken prior to being approved for an academic "Fresh Start."

Quantitative Standard

The quantitative standard has two aspects, incremental (pace) progress and a maximum time frame, requiring that the student make reasonable progress toward earning a degree or certificate.

Incremental Pace Progress

The student must successfully complete at least two-thirds of cumulative attempted semester hours.

Maximum Time Frame

The student must be able to complete his/her program of study within 150% of the number of semester hours required at HCC to complete his/her degree or certificate.

Repeat Policy

Financial aid can only pay for one repeat of a previously passed course. This repeat policy applies even if the student did not receive financial aid when enrolled in the course in the past.

Appeal Process

A student who believes that extraordinary circumstances prevented him/her from attaining satisfactory academic progress may submit a written appeal to the Satisfactory Academic Progress Appeals Committee.

Financial Aid Probation

If a student is granted an appeal, s/he is considered to be on financial aid probation. A student on financial aid probation will be eligible to receive financial aid for one semester. To receive financial aid beyond that point, s/he must meet normal SAP standards and/or fulfill the requirements of an academic plan.

Warning Period

Students who fail to meet the incremental pace standard and /or the GPA standard for the very first time are granted a one-semester warning period. Students in this category are warned of their failed status but do not lose their financial aid for the semester.

A complete statement of the Holyoke Community College policy on satisfactory academic progress is available in the Financial Aid Office, Frost 201.

AID DISBURSEMENTS AND THE RETURN OF UNEARNED AID

A student's financial aid eligibility for each term is generally based on the student's enrollment status at the end of the add/drop period (For summer this normally means the very first add/drop period and for the intersession/spring term this normally means the add/drop period of the traditional spring term).

The first aid disbursement for a term normally takes place approximately 30 days after classes start. A student with a credit balance on his/her account resulting from aid in excess of balances due will receive a check within fourteen days of disbursement.

If the student stops attending classes before completing 60% of the term, the student is considered to have earned only a percentage of his/her aid equal to the percentage of the term completed. In such cases the school must apply federal and state rules to determine how much unearned aid must be repaid respectively by the student and the school. Any grant aid that is due back from the student is considered an overpayment.

Until resolved, federal financial aid overpayments prevent a student from receiving federal or state aid at any school. State overpayments disqualify the student for state aid at any school. In addition, the return of aid by the college can leave an unpaid balance on the student's college account.

Federal regulations require schools to use the date the student begins the withdrawal process as the "date of withdrawal." Holyoke Community College defines the date the student begins the withdrawal process as the date the student obtains withdrawal forms from the Student Records Office with the intention to completely withdraw from school. If a student stops attending, and fails to officially withdraw from classes, the school normally uses the 50% point of the term as the "withdrawal date," although a different date may be used if the school has received a last date of attendance from an instructor.

Federal rules now also require the return of financial aid in cases where a student withdraws from a course that does not span the entire semester, *if* at the time of withdrawal from the course the student is not currently attending other classes.

Contact the Financial Aid Office for more information.

Federal Student Financial Aid Penalties for Drug Law Violations

Students convicted under any federal or state law for the possession or sale of illegal drugs for any offense that occurred while receiving federal student aid are ineligible for aid for a period of time based on the type and number of convictions.

FINANCIAL AID PROGRAMS

Students applying for financial aid according to the procedures described above are considered for a wide variety of financial aid programs briefly described below. In addition, students may apply for a variety of scholarships through the HCC Foundation at www.hccscholarship.org. The college also awards a limited number of Talent Grants without requiring an application.

Read the catalog online at www.hcc.edu/catalog

GRANTS

Federal Pell Grant

Pell Grants range up to \$5,550 a year for full-time, \$4,163 for three-quarter time, \$2,775 for half-time, and \$1,388 for less than half-time enrollment. Recipients are restricted to a lifetime limit of 12 full-time semesters of awards. Undergraduate students only. FUNDING: U.S. Govt.

MassGrant

Awards at Massachusetts Community Colleges range up to \$800 per year depending on the need. *Full-time undergraduate students only*. FUNDING: State of Mass.

Federal Supplemental Educational Opportunity Grant

Grants normally do not exceed \$200 at HCC. Preference to Pell-eligible students with zero EFCs. *Undergraduate students only*. FUNDING: U.S. Govt.

HCC Financial Aid Tuition Waiver

Tuition Waivers reduce tuition charges and can range up to the full amount of in-state tuition. *Undergraduate students only*. FUNDING: State of Mass.

Mass Furcolo Access Grant

Awards cannot exceed tuition and fees. *Undergraduate students only*. FUNDING: State of Mass.

Part-Time Student Grant

Award offers range from \$200 to \$400. Limited to eligible students enrolling for 6 to 11 semester hours per term. *Undergraduate students only*. FUNDING: State of Mass.

Institutional Grant

Grants are normally limited to direct educational costs. *Undergraduate students only*. FUNDING: HCC.

HCC Educational Access Grant

Award offers generally range from \$150 to \$300. *Undergraduate students only*. FUNDING: HCC.

LOANS

Federal Direct Stafford Loan

A low interest educational loan of up to \$5,500 per year (no more than \$3,500 can be subsidized) for freshman and \$6,500 per year (no more than \$4,500 can be subsidized) for sophomores. (Independent students can borrow up to an additional \$4,000 in unsubsidized loan, if needed) Repayment does not begin until six months after the borrower ceases at least half-time enrollment. If subsidized, interest is not charged until the borrower ceases to be at least a half-time student. If unsubsidized, interest accrues from the time the loan is disbursed until it is paid-in-full. New borrowers on or after July 1, 2013 lose the loan subsidy when the student has received subsidized loans for 150% of the published time of the student's academic program. FUNDING: US Govt.

Federal Direct Plus Loans

A loan for parents of dependent students. Interest is charged from the date of the first disbursement. All Direct PLUS loans distributed on or after July 1, 2006 have a fixed interest rate of 7.9%. The loan requires a credit check. FUNDING: U.S. Govt.

JOBS

Federal Work Study (FWS)

Provides jobs for needy applicants. FWS awards typically allow students to work an average of 10 to 12 hours per week during the school year. Sometimes additional hours are available during the summer and other vacation periods, but rarely would total hours exceed 30 per week. Hourly rates range from \$8.00 to \$9.15. Payroll is every two weeks. FUNDING: US Govt. & HCC.

For more detailed information regarding federal, state, and institutional student aid programs, the student should check the following web sites:
<http://www.hcc.edu/admission/paying-for-college>
U. S. Department of Education (www.studentaid.ed.gov)
Massachusetts Office of Student Financial Assistance (www.osfa.mass.edu)

SPECIAL PROGRAMS AND SERVICES

ABE TRANSITION TO COLLEGE & CAREERS PROGRAM AND BRIDGE

ABE Transition to College and Careers (ABE TCC) and Bridge to ABE TCC are free, non-credit programs that help adult students prepare for college. Applicants must have completed a GED (anytime) or have a high school diploma from at least four years ago; be at least 18-years-old (there is no maximum age); and be planning to enter college to pursue a certificate or degree after completing the program.

Classroom instruction focuses on math, algebra, reading, writing, development of critical thinking skills, computer skills in a college context and study strategies. The programs offer intensive tutoring, counseling in English and Spanish, and mentoring. Mentors are program graduates as well as volunteers from local colleges and agencies, and serve as assistants in the classroom as well as being available outside of class hours.

Career counseling is an integral part of the ABE TCC program, with a speaker series featuring guest professionals, faculty from different departments and career development workshops and field trips. Staff assists participants with admissions, financial aid, and connecting students to college resources and services.

Programs are offered during spring, summer and fall semesters. Day program classes are held on the HCC campus. Evening Bridge and ABE TCC classes are held at the Picknelly Adult & Family Education Center (PAFEC) in downtown Holyoke.

For more information, or if you are interested in becoming a mentor, please contact Elia Dreyfuss, ABE Transition to College & Careers Program Coordinator at (413) 552-2852 or edreyfuss@hcc.edu.

ENGLISH AS A SECOND LANGUAGE (ESL)

HCC offers English as a Second Language (ESL) courses and an array of services to help English language learners succeed in college. ESL courses prepare students for Associate Degree or Certificate programs.

ESL ACADEMIC COURSES

Four levels of academic English are offered for students for whom English is not a first language in order to enable them to enter courses that lead to a certificate or Associate degree from HCC. ESL courses are offered in the following areas: reading and writing, speaking and listening, grammar, and pronunciation.

Assistance Available

- Bilingual services
- Individual and group tutoring
- Academic advising
- Student advocacy and referrals
- Orientation seminars
- Academic and career counseling
- Language assessment/placement
- Self-directed and computerized lab instruction

For More Information To learn more about the ESL Support Program stop by the office in the Donahue building room 203, or call (413) 552-2553 or 2234. E-mail: gmontero@hcc.edu.

INGLÉS COMO SEGUNDO IDIOMA

La Oficina de Servicios de Apoyo de Inglés como Segundo Idioma le ofrece servicios a estudiantes cuyo idioma nativo no es el inglés. El programa ofrece cursos de Inglés como Segundo Idioma (ESL) y una variedad de servicios para ayudar a los estudiantes a tener éxito en sus estudios. Los cursos de ESL preparan al estudiante para tomar cursos a nivel universitario en programas de grado asociado o de certificados.

ASISTENCIA DISPONIBLE EN:

- Servicios bilingües
- Talleres de ingreso al colegio
- Seminarios de orientación
- Evaluación de lenguaje/ubicación
- Consejería académica y de carrera
- Tutoría individual y en grupo
- Laboratorio de instrucción auto-dirigida computarizada
- Asesoría estudiantil y referidos

CURSOS ACADÉMICOS DE ESL

Los estudiantes pueden utilizar un total de 15 créditos de los cursos de ESL, algunos de los cuales pueden ser convalidados a programas de grado asociado del Colegio. Cuatro niveles de instrucción son ofrecidos en las siguientes áreas: Inglés conversacional, lectura y escritura, gramática y pronunciación. Las clases se concentran en las áreas de destrezas esenciales para los estudiantes que continúan su educación. Los estudiantes matriculados en clases avanzadas de ESL también pueden tomar cursos correspondientes a sus carreras cuando sea apropiado.

Para Mayor Información Para saber más sobre el Programa de Apoyo de Inglés como Segundo Idioma visite nuestra oficina en el edificio Donahue 203, o llame al 552-2553 ó 552-2234. Email: gmontero@hcc.edu.

ESL SUPPORT PROGRAM - АНГЛИЙСКИЙ КАК ВТОРОЙ ЯЗЫК

Эта программа для студентов, у которых английский язык не является родным языком. Им предлагаются курсы английского языка (ESL) и другие услуги, помогающие успешно учиться в колледже. Курсы ESL подготавливают студентов к дальнейшей учебе и получению Сертификата (Professional Certificate) или Диплома (Associate Degree).

УСЛУГИ ПРОГРАММЫ ESL

- Информация на испанском и русском языках
- Советы по поступлению в колледж
- Ориентация для вновь поступивших студентов
- Определение уровня знания английского языка
- Консультации по учебе и карьере
- Индивидуальные и групповые занятия
- Информация о правах студентов

АКАДЕМИЧЕСКИЕ КУРСЫ ESL

Студенты могут заработать до 15 кредитов, которые засчитываются при продолжении учебы для получения диплома. Программа ESL предлагает четыре уровня изучения английского языка в следующих разделах: чтение и письмо, разговорная речь и восприятие на слух, произношение, а также четыре уровня грамматики. Студенты получают знания, необходимые для продолжения образования. Начиная с четвертого уровня ESL, студенты могут одновременно брать курсы по выбранной ими специальности. Вы можете получить дополнительную информацию о программе ESL в здании Donahue, офис 203, или позвонив по телефонам (413) 552-2553 и (413) 552-2234, и email obashmakova922@hcc.edu HCC Adult Learning Center at the Picknelly Adult and Family Education Center

HCC ADULT LEARNING CENTER AT THE PICKNELLY ADULT AND FAMILY EDUCATION CENTER

The HCC Adult Learning Center is a community-based ABE program located at The Picknelly Adult and Family Education Center, 3rd Floor, 206 Maple Street, in Holyoke. The Center programs are partially funded by the MA Department of Elementary and Secondary Education and offers Basic Literacy, Pre-GED Preparation, GED Preparation and “Fast Track” Math. The Center offers a GED Practice Test, which is available for qualified students. All learners receive career counseling, academic counseling, and referrals as needed. To learn more about our services, contact the Program Coordinator at (413)552-2912. All services are free.

LUDLOW AREA ADULT LEARNING CENTER

The Ludlow Area Adult Learning Center is a community-based ABE program that offers of English for speakers of other languages. Classes are held during the day and evening, The Center also offers individual or paired tutoring for those who cannot attend evening classes. New to the center are computer skills workshops, assistance with citizenship issues, and transitioning learners to college. All learners receive career counseling, academic counseling, and referrals as needed.

The Ludlow Area Adult Learning Center is located at 54 Winsor Street, 2nd floor in Ludlow. For more information, contact the Program Coordinator at (413) 583-0320. All services are free.

MAS - MULTICULTURAL ACADEMIC SERVICES

Multicultural Academic Services (MAS) program is designed with the GOAL of helping students of underrepresented groups find the pathways that will help them succeed in college. It caters to students challenged by issues of language, cultural identity, and isolation. Through a one-on-one approach, students are encouraged to develop skills that promote self-authorship, self-advocacy and leadership. The MAS Program serves as a pipeline for students of various backgrounds: Students who exit support programs such as ESL, *Avanza 2* College and Gateway to College, enter the MAS Program and eventually are encouraged to seek support from transfer programs such as Pathways Program and/or to eventually transfer to four-year institutions.

For more information about MAS stop by Frost 262 or call Myriam Quinones at (413) 552-2539 or email mquinones@hcc.edu.

OFFICE FOR STUDENTS WITH DISABILITIES AND DEAF SERVICES

The Office for Students with Disabilities provides assistance to students with documented disabilities through assessment of individual academic needs and implementation of accommodations for both classroom and campus access. Students are encouraged to contact the office immediately following their acceptance to the college to obtain timely services and arrange for equipment.

Typical accommodations available to students include: academic and advocacy counseling, arrangement of alternative testing services, and supplemental note takers, ASL interpreters and oral transliterators and introduction to the HCC assistive technology center. These individualized services are developed in conjunction with faculty and community support services as well as HCC campus services.

Additional support services such as electronic/alternative texts, tutorial assistance, and transfer counseling may be arranged through other campus or community service providers. For information about services, contact (413) 552-2417, Donahue 139.

PATHWAYS PROGRAM

This special program is devoted to helping promising students to succeed at HCC and prepare for transfer to earn their bachelor's degree from selective liberal arts colleges like Mount Holyoke, Smith, Hampshire, and Amherst Colleges. It provides academic support services such as, academic advising, assistance with the FAFSA and scholarship processes, assistance with the transfer process, mentoring, the Math Transition seminar, and Learning Community courses. For more information call (413) 552-2857.

SENIOR WAIVER

Massachusetts Residents 60 years of age or older have the opportunity to take HCC credit classes on a space-available basis through HCC's senior waiver program. Seniors pay a fee of \$50 per semester regardless of the number of credits taken. Seniors can only register for courses two weeks prior to the start of any semester. The senior waiver is applied to credit classes only. For information, contact Linda Scott at (413) 552-2054 or visit the Advising Center in Frost 273.

STRIVE

STRIVE (Students Together Reaching Individual Visions of Excellence) is a federally funded TRiO Student Support Services program designed to assist participants in graduating from HCC and transferring to a four-year institution by providing a range of academic support services. To be eligible for STRIVE, students must be enrolled in three or more classes (9 credits or more) and be in need of academic or financial support. Students must qualify under one or more of the following three categories: low income, first generation (parent(s)/guardian have not earned a Bachelor's degree), or have a documented disability. Applications are available at Donahue 240 or at <http://www.hcc.edu/student-services/support-at-hcc/strive>. For more information, please contact the STRIVE Administrative Secretary at (413) 552-2505 or at strive@hcc.edu.

STUDENT ACTIVITIES

The Student Activities Office helps build community and foster college involvement through social and educational program—ming and leadership development. Opportunities for involvement include the Student Senate, the student member of the Board of Trustees, and over 25 active clubs and organizations (see the Student Handbook for a complete list). Students, faculty and staff participate in a wide variety of programs (multi-cultural events, music, dance, speakers, campus celebrations) during the weekly Wednesday Activity Period. Anyone wishing to participate in Student Activities is encouraged to call (413) 552-2418 for more information.

TRANSITION PROGRAMS

School-to-Career Transition

School-to-Career Transition (STC) provides an opportunity for a seamless path of work and learning beginning in high school and continuing through community college, with students entering the job market upon graduation or continuing on to a four-year college or university. Students choose a major in high school, complete a work experience in grades 11 and 12, and continue with a major-related work experience through the Cooperative Education Program while at HCC. Two components related to School-to-Career transition are Career Vocational Technical Education (CVTE) Linkages (formerly Tech Prep), and Cooperative Education.

Secondary/Post-Secondary CVTE Linkages (formerly Tech Prep)

Secondary/Post-Secondary CVTE Linkages is a federally funded program under the Carl V. Perkins legislation. It begins in high school, parallels the college course of study, and continues at a post-secondary institution. It leads to an Associate Degree, Certificate, apprenticeship, or further post-secondary study in a specific career pathway.

HCC has articulation agreements with approximately twenty area secondary schools in many program areas. Their purpose is to build upon students' past learning experiences, eliminate unnecessary duplication of course work, establish a clear and continuous education path, and facilitate progress at HCC. College credits are awarded to students within carefully defined guidelines for specific competencies in course work done in high school.

For information about this program please contact the Office of Student Affairs at (413) 221-9900.

Areas of Study

HCC offers Associate in Arts (A.A.) and Associate in Science (A.S.) degrees within many areas of study. Degree programs are designed to be completed with two years of full-time study. Degrees prepare students for specific careers and/or transfer to four-year institutions. Certificate programs are designed to be completed with one year of full-time study or less. Certificates prepare students for highly spe-

cialized careers. The credits earned in a certificate program can be transferred to a degree program.

The following pages include information on the degree and certificate programs offered at Holyoke Community College. The program requirements and a contact person are listed should you need additional information.

If You're Interested In ...

ARTS & HUMANITIES

CMTA Integrated Studies	p. 29
Communication	p. 30
Creative Writing	p. 38
Deaf Studies	p. 43
Electronic Media	p. 51
Graphics	p. 74
Music	p. 100
Photography	p. 110
Theater	p. 135
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ACADEMIC AFFAIRS

Applied Technology Option (Degree)	p. 19
General Integrated Studies Option (Degree)	p. 72
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BUSINESS, SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

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Business Administration	p. 24
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Computer Info Security & Assurance	p. 32
Computer Info Security & Assurance Management	p. 34
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Computer Networking	p. 36
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Engineering Science Option	p. 57
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Hospitality Management	p. 82
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Human Resource Management	p. 85
Marketing Management General Transfer	p. 93
Marketing Management Retail Management Career Option	p. 94
Mathematics General Transfer	p. 95
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Physics	p. 111
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Programming	p. 117
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HEALTH & NATURAL SCIENCES

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Group Exercise	p. 75
Health Fitness Management	p. 76
Health, Fitness and Nutrition	p. 79
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Medical Assisting	p. 97
Medical Billing	p. 98
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Natural Resources Studies Transfer Option	p. 104
Nursing	p. 105
Nutrition and Food Transfer Option	p. 107
Personal Trainer/Fitness Counselor	p. 109
Practical Nursing	p. 112
Pre-Veterinary & Animal Science Option	p. 115
Radiology Technology	p. 120
Solar Energy	p. 128
Strength and Condition Specialist	p. 130
Sustainability Agriculture	p. 132
Sustainability Studies	p. 133
Veterinary Technician Option	p. 137
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SOCIAL SCIENCES

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American Studies	p. 17
Criminal Justice	p. 39
Day Care Administration	p. 42
Developmental Disabilities Direct Support	p. 46
Early Childhood Career	p. 47
Early Childhood Transfer Option	p. 49
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Forensic Science	p. 66
General Intergrated Studies Elementary Education Option (WSU)	p. 70
Human Services	p. 87
Law Enforcement	p. 91
Psychology	p. 118
Secondary Education Option	p. 124
Sociology	p. 126
Supervision and Leadership in the Helping Professions	p. 131
Women's Studies	p. 141

ACCOUNTING – B016

A.S in Accounting

CONTACT

Leah A. Russell, (413) 552-2312, lrussell@hcc.edu

COURSE TITLE	NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
PROGRAM REQUIREMENTS			42		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Computer Assisted Accounting	ACC 115	ACC 111; Pre or co-requisite; BUS 215	3		
Intermediate Accounting	ACC 201	ACC 112	3		
Managerial Accounting	ACC 205	ACC 112	3		
Federal Income Taxation	ACC 212	ACC 112	3		
Certified Bookkeeper Preparation (Spring)	ACC 215	ACC 201	3		
Professional Etiquette	BUS 112		1		
Mathematics for Business Decisions	BUS 170	CSI 111, BUS 115, or BUS 215, and Eligibility for MTH 095	3		
Spreadsheets	BUS 215		3		
Business Communications	BUS 220	ENG 101	3		
Internship in Business or Cooperative Education in Business I	BUS 278 BUS 280	Sophomore status, approval of department chair, ACC 112 (for accounting and business administration students only), and either the completion of, or current enrollment in, two other ACC, BUS, or HCA.	3		
Business Law	LAW 211		3		
Principles of Management	MGT 230		3		
TOTAL CREDITS			62		

PROGRAM OVERVIEW

Accounting is an associate degree program that includes foundation business courses and specialized accounting courses. Many baccalaureate institutions accept this program as a transfer option in their accounting programs. Upon graduating from this program, students will possess the skills needed to secure a full-charge bookkeeper position. Students will be able to analyze and interpret basic financial statements, evaluate accounting data and integrate the disciplines of accounting and management and evaluate accounting data.

NOTES

Students who intend to transfer should look at the following options: B023 (Mass Transfer to UMass and Westfield State University; GPA 3.0 required for UMass), B034 (General Transfer to most 4-year private colleges), B037 (Marketing Management General Transfer Option to most 4-year private colleges), B045 (Paralegal Option for transfer to Elms College and Bay Path College).

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

ACCOUNTING SYSTEMS CERTIFICATE – B017

CONTACT

Leah A. Russell, (413) 552-2312, lrussell@hcc.edu

PROGRAM OVERVIEW

The Accounting Systems Certificate prepares students to pursue entry-level employment in the field of accounting. Credits earned through the certificate program may be applied toward the A.S. in Accounting as well. A majority of the certificate program requirements may be taken

online. Upon graduating from this program, students will be able to analyze and record accounting transactions that result in accurately prepared financial statements. In addition, quantitative analysis of accounting data will be used to operate an accounting information system.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			26		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Computer Assisted Accounting	ACC 115	ACC 111, Pre or co-requisite: BUS 215	3		
Mathematics for Business Decisions	BUS 170	CSI 111, BUS 115 or BUS 215, Eligibility for MTH 095	3		
Spreadsheets	BUS 215		3		
Business Communications	BUS 220	ENG 101	3		
Accounting Systems Elective ¹			3		
TOTAL CREDITS			26		

NOTES

¹Select from: Any ACC course, BUS 101, BUS 115, CSI 111, LAW 211, MGT 230, MGT 231, MGT 235

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

ADDICTION STUDIES CERTIFICATE – H024

CONTACT

Jackie Griswold, Ed.D, (413) 552-2333, jgriswold@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			21		
Introduction to Human Services	HSV 113	Eligibility for ENG 101	3		
Introduction to Addiction Studies	HSV 120	Eligibility for ENG 101	3		
The Helping Relationship: Delivering Human Services	HSV 124	HSV 113, PSY 110	3		
Introduction to Psychology	PSY 110	Eligibility for ENG 101	3		
Substance Abuse	HSV 208/ SOC 208	PSY 110 or SOC 110	3		
Professional and Ethical Standards in the Helping Professions	HSV 213	HSV 113	3		
Treatment Modalities in Chemical Dependence	HSV 214	HSV 120 and HSV 124	3		
PROGRAM ELECTIVES <i>(Select 1 from the list below)</i>			3		
Understanding Diversity and Valuing Similarities	ANT 114		3		
Domestic Violence	HSV 205	Eligibility for ENG 101	3		
Group Dynamics	HSV 212 COM 212	PSY 110	3		
Human Development	PSY 216	PSY 110	3		
Abnormal Psychology	PSY 217	PSY 110	3		
Total Credits			24		

PROGRAM OVERVIEW

The Addiction Studies Certificate has been developed in alignment with the Massachusetts Board of Substance Abuse Counselors Certification (MBSACC) requirements for the educational portion of Certified Addiction Counselor (CAC) certificate. Courses reflect the educational portion of state certification requirements solely; additional requirements, including documented supervised hours of practice, may be needed in order to complete the CAC certification process. For specific information please contact the MBSACC at www.mbsacc.org.

NOTES

CORI (Criminal Offender Record Information) and SORI (Sexual Offender Registry Information) background checks may be required prior to field work and practicum placement and will be conducted by specific agencies in accordance with state regulations. CORI and SORI results are confidential.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

ADMINISTRATIVE PROFESSIONAL STUDIES – B041

A.S. Administrative Professional Studies

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Social Science Elective (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
PROGRAM REQUIREMENTS			34-35		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Introduction to Business	BUS 101		3		
Professional Etiquette	BUS 112		1		
Money Management	BUS 114	Eligibility for MTH 085	1		
Computer Applications <i>or</i> Computer Concepts and Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Advanced Computer Applications	BUS 216	BUS 115 or CSI 111	3		
Mathematics for Business Decisions	BUS 170	CSI 111, BUS 115 or BUS 215, Eligibility for MTH 095	3		
Business Communications	BUS 220	ENG 101	3		
Cooperative Education in Business I	BUS 280		3		
Public Speaking	COM 150		3		
Job Search Strategies	GSY 111		1		
Business Law	LAW 211		3		
Principles of Management	MGT 230		3		
PROGRAM ELECTIVES			6		
Business Electives ¹			3		
Business Electives ¹			3		
Total Credits			60-61		

NOTES

¹ Select from: ACC, BUS, CSI, HCA, LAW, MGT, MKT, SEC, SPO.
Students who intend to transfer should look at the following options:
B023 (Mass Transfer to UMass and Westfield State University; GPA

3.0 required for UMass), B034 (General Transfer to most 4-year private colleges), B037 (Marketing Management General Transfer Option to most 4-year private colleges), B045 (Paralegal Option for

transfer to Elms College and Bay Path College).
Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

PROGRAM OVERVIEW

The Administration Professional Studies program combines strong technical and computer skills and an emphasis on effective writing and communication. Upon graduating from this program, the student will be able to prepare a variety of business documents such as correspondence, reports, newsletters, spreadsheets, presentations and databases using Microsoft Office software; communicate orally and in writing, maintain accounting journals and ledgers, prepare financial data, and manage routine office duties. The student will bring to the administrative office position skills such as professionalism, teamwork, time management, decision making, problem solving, and multitasking. Students may use their Business Electives to expand their knowledge in the area of business in which they wish to apply their skills.

Most courses will transfer to four-year institutions.

ADMINISTRATIVE PROFESSIONAL STUDIES CERTIFICATE – B042

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

PROGRAM OVERVIEW

The Administrative Professional Certificate combines strong technical and computer skills and an emphasis on effective writing and communication. The certificate will be especially useful to students with prior office experience who wish to update their skills. Upon completion of this certificate, the student will be able to prepare a variety of business documents such as correspondence, reports, newsletters, spreadsheets, presentations, databases, using Microsoft Office software; communicate orally and in writing, maintain

accounting journals and ledgers, prepare financial data, and manage routine office duties. The student will bring to the administrative office position skills such as professionalism, teamwork, time management, decision making, problem solving, and multitasking. This certificate is directly transferable into the Administrative Professional Studies Option to the A.S. in Business Administration. Students may use their Business Electives to expand their knowledge in the area of business in which they wish to apply their skills.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			20-21		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
Professional Etiquette	BUS 112		1		
Computer Applications or Computer Concepts and Applications	BUS 115/ CSI 111	Eligibility for ENG 101	3-4		
Mathematics for Business Decisions	BUS 170	CSI 111, BUS 115 or BUS 215, Eligibility for MTH 095	3		
Advanced Computer Applications	BUS 216	BUS 115 or CSI 111	3		
Business Communications	BUS 220	ENG 101	3		
Cooperative Education in Business I	BUS 280	Sophomore status, approval of department chair, ACC 112 (for accounting and business administration students only), and either the completion of, or current enrollment in, two other courses. ¹	3		
Job Search Strategies	GSY 111		1		
PROGRAM ELECTIVES			6		
Business Electives ¹			3		
Business Electives ¹			3		
Total Credits			26-27		

NOTES

¹ Choose two courses from the following: BUS, MKT, MGT, ACC, HCA, LAW, SPO, CSI
Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

AMERICAN STUDIES OPTION - H017

A.A. in Arts and Science

CONTACT

Social Sciences Division, (413) 552-2280

PROGRAM OVERVIEW

An exploration of American society, including its history, institutions, and culture. Provides an essential and useful foundation for students looking to pursue History,

Government, American Literature, and Pre-Law studies, transfers, and careers.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35 -36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science (B)			3		
Social Science (B)			3		
Social Science (B)			3		
Humanities (C)			3		
Humanities (C)			3		
Humanities (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Mathematics (D)			3-4		
SUGGESTED ELECTIVES			25		
Understanding Diversity and Valuing Similarities	ANT 114		3		
Survey of North American Indians	ANT 120		3		
The Natural History of New England	ENV 124		4		
Introduction to Macroeconomics	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Major American Writers (I)	ENG 211	ENG 102	3		
Major American Writers (II)	ENG 212	ENG 102	3		
Current Themes in Literature	ENG 230	ENG 102, previously or concurrently	3		
History of the United States I	HIS 111		3		
Honors Colloquium	HON 203	A 3.5 GPA after 30 hours of study and/or permission of the instructor(s). No student will be enrolled without permission. English 102 is preferred. All eligible students are invited, by mail, to apply before pre-registration. Instructions for application are included with the invitation.	3		

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Read the catalog online at www.hcc.edu/catalog

AMERICAN STUDIES OPTION - H017 *continued*

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
SUGGESTED ELECTIVES (continued)			25		
Introduction to Jazz	MUS 140		3		
Introduction to Philosophy	PHI 101		3		
U.S. National Government	POL 110		3		
World Politics	POL 125		3		
Introduction to Psychology	PSY 110	Eligibility for ENG 101	3		
Introduction to Sociology	SOC 110	Eligibility for ENG 101	3		
Foreign Language			3		
TOTAL CREDITS			60-61		

NOTES

*Only six non-Arts and Science credits may be taken towards an A.A. degree.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant

students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection, 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

APPLIED TECHNOLOGY OPTION – C002

A.S. in Liberal Studies

CONTACT

Idelia Smith, (413) 552-2770, ismith@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			23-24		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Social Sciences (B)			3		
Social Sciences (B)			3		
Mathematics (D)			3-4		
PROGRAM REQUIREMENTS			36-48		
<i>30 credits selected in consultation with advisor. Up to 30 credits of HCC approved technical \ training from another institution</i>					
			3-4		
			3-4		
			3-4		
			3-4		
			3-4		
			3-4		
			3-4		
			3-4		
			3-4		
			3-4		
			3-4		
			3-4		
Total Credits			60-66		

PROGRAM OVERVIEW

This program was developed for students who wish to create a program of study that will enhance and support their occupational interest. Students must meet the general education requirements, but may select courses that complement their employment and provide them with a college degree. Course work can be selected from any career or technical area.

NOTES

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

BANKING OPTION – B029

A.S. in Business Administration

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			26		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or eligible for MTH 095	3		
Social Science Elective (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Statistics (D) or Mathematics for Business Decisions ¹	MTH 142 BUS 170	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination CSI 111, BUS 115 or BUS 215, Eligibility for MTH 095	3		
PROGRAM REQUIREMENTS			34-35		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Professional Etiquette	BUS 112		1		
Money Management	BUS 114	Eligibility for MTH 085	1		
Computer Applications or Computer Concepts w/Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Principles of Banking ¹	BUS 239		3		
Introduction to International Business	BUS 245		3		
Cooperative Education in Business I	BUS 280	Sophomore status, approval of department chair, ACC 112 (for accounting and business administration students only), and either the completion of, or current enrollment in, two other ¹ ACC, BUS courses, or HCA.	3		
Business Law	LAW 211		3		
Principles of Management	MGT 230		3		
Customer Service and Sales	MKT 227		3		
Principles of Marketing	MKT 240		3		
Total Credits			60-61		

NOTES

¹ These courses are offered only through the Center for Financial Training at a cost which may be different than HCC courses, and financial aid might not be available.

Credits earned from a CFT course are transferred into an HCC program upon successful completion of the course. Therefore, students may not be considered a full-time HCC student while enrolled in a CFT course.

Students who intend to transfer should look at the following options: B023 (Mass Transfer to UMass and Westfield

PROGRAM OVERVIEW

Banking is a degree option that prepares students for entry-level careers in banking and students will be expected to complete at least one course through the Center for Financial Planning. Upon graduating from this program, students will be able to define basic banking principles, interpret accounting data, analyze financial statements, calculate business statistical data and quantify a variety of other business data, summarize and appreciate the lending process, appreciate the role of law in the banking field and define traditional functions of management and their contributions to strategic planning.

This degree is not intended for transfer, although many of these courses are accepted by 4-year institutions. Students who intend to transfer should look at the following options: B023 (Mass Transfer to UMass and Westfield State University; GPA 3.0 required) B034 (General Transfer to most 4-year private colleges), B037 (Marketing Management General Transfer Option to most 4-year private colleges), B045 (Paralegal Option for transfer to Elms College and Baypath College).

State University; GPA 3.0 required for UMass), B034 (General Transfer to most 4-year private colleges), B037 (Marketing Management General Transfer Option to most 4-year private colleges), B045 (Paralegal Option for transfer to Elms College and Bay Path College).

Depending on the course selection 100% of this program can be completed online. Go to www.hcc.edu/ catalog for further information.

BIOLOGY OPTION – X060

A.S. in Arts and Science

CONTACT

Erica Bergquist, (413) 552-2461, ebergquist@hcc.edu

PROGRAM OVERVIEW

Designed to satisfy freshman – sophomore curriculum for students intending to continue in the life sciences beyond the associate degree. Possible areas of concentration at the four-year college include: biology, genetics, botany, zoology, microbiology, biochemistry, marine

biology, and wildlife conservation. Program flexibility allows students to follow their interests and to match coursework with the requirements of their selected transfer institution.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			32		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Social Science Electives (B)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
General Biology I: Introduction to Cell Functions (D) and General Biology II: Diversity of Life on Earth (D) or General Botany (D) and General Zoology (D)	BIO 107 and BIO 108 or BIO 110 and BIO 120	Eligibility for ENG 101 Credit cannot be received for more than one of these - BIO 100, 103, 107	8		
PROGRAM REQUIREMENTS			15		
Principles of Chemistry I or Inorganic Chemistry I	CHM 113 CHM 121	High School Algebra I or equivalent. High School Chemistry recommended.	4		
Principles of Chemistry II or Inorganic Chemistry II	CHM 114 CHM 124	CHM 113 or equivalent. High School Algebra I or equivalent recommended. CHM 113 or CHM 121	4		
Statistics	MTH 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
College Algebra or Pre-Calculus or Calculus I	MTH 104 or MTH 108 or MTH 113	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination MTH 104 with a grade of C- or better, or adequate score on the Mathematics Placement Examination MTH 108 or adequate score on the Mathematics Placement Exam	4		

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BIOLOGY OPTION – X060 *continued*

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES (Select 2 courses from the following)			8		
Introduction to Biotechnology (Fall)	BIO 106	BIO 107 (preferred) or BIO 100 or BIO 101 or BIO 103 or BIO 110 or BIO 120 and MTH 095 eligible.	4		
Conservation Biology (Fall)	BIO 130		4		
Microbiology	BIO 229	BIO 100 or BIO 103 or BIO 107 or BIO 110 or BIO 120	4		
Plants of New England (Fall)	BIO 215	A semester course in college biology or environmental science	4		
Vertebrate Field Biology (Spring)	BIO 222	BIO 108 or BIO 120 or BIO 230	4		
Animal Behavior (Fall)	BIO 223	BIO 108 or BIO 120 or VET 133	4		
Ecology (Spring)	BIO 230	A semester course in college biology or environmental science	4		
Genetics (Spring)	BIO 243	A grade of C or better in one of the following: BIO 100, 103, 110, 229 or 120	4		
Independent Study	BIO 295		4		
SUGGESTED ELECTIVES ^{1,2} (Sufficient to complete 60 credit graduation requirement)			5-8		
Total Credits			60-63		

NOTES

¹ BIO 111 Human Biology; BIO 217 Human Anatomy and Physiology I; Biology 218 Human Anatomy and Physiology II are recommended or students interested in human biology and health careers.

² Suggested course prefixes: AST; BIO; CHM; EGR; ESC; ENV; MTH; PHS; SEM. Any Liberal Arts elective is allowed.

Check with transfer institution / counselor for specific requirements.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

BIOTECHNOLOGY OPTION – X012

A.A. in Arts and Science

CONTACT

James Knapp, (413) 552-2398, jknapp@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Social Science Electives (B)			3		
Social Science Electives (B)			3		
Introduction to Electronic Media (C)	EMS 111		3		
Humanities Elective (C) ¹					
Humanities Elective (C)			3		
General Biology I: Introduction to Cell Functions (D)	BIO 107	Eligibility for ENG 101	4		
General Biology II: Diversity of Life on Earth (D)	BIO 108	BIO 100 or 103 or 107	4		
Statistics (D)	MTH 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
PROGRAM REQUIREMENTS (Select 7 courses from the following)			28		
Introduction to Biotechnology	BIO 106	BIO 107 (preferred) or BIO 100 or BIO 101 or BIO 103 or BIO 110 or BIO 120 and MTH 095 eligible.	4		
Microbiology	BIO 229	BIO 100 or BIO 103 or BIO 107 or BIO 110 or BIO 120	4		
Principles of Chemistry I or Inorganic Chemistry I	CHM 113 CHM 121	High School Algebra I or equivalent. High School Chemistry recommended.	4		
Principles of Chemistry II or Inorganic Chemistry II	CHM 114 CHM 124	CHM 113 or equivalent. High School Algebra I or equivalent recommended CHM 113 or CHM 121	4		
Organic Chemistry I (Fall)	CHM 221	CHM 124, 114, or 102 with permission of instructor	4		
Organic Chemistry II (Spring)	CHM 222	CHM 221 or one previous semester of organic chemistry	4		
College Algebra or Precalculus or Calculus I	MTH 104 or MTH 108 or MTH 113	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination MTH 104 with a grade of C- or better, or adequate score on the Mathematics Placement Examination. MTH 108 or adequate score on the Mathematics Placement Exam	4		
Topics in Science	SEM 130		4		
Total Credits			63		

PROGRAM OVERVIEW

This program is intended for the student who is interested in pursuing a baccalaureate degree in the life sciences utilizing the basic principles of biotechnology. This technology is based on recent advances in the discipline of recombinant DNA technology. Students completing the option will have acquired the necessary laboratory skills and theoretical background for transfer to other state or private colleges. Career and research opportunities include, but are not limited to, animal sciences, agrigenetics, immunogenetics, pharmaceuticals, biomedical technologies, forensics and environmental sciences.

NOTES

¹ PHI 120: Ethics suggested

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

BUSINESS ADMINISTRATION-CAREER OPTION – B026

A.S. in Business Administration

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			23		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B) or Introduction to Microeconomics (B)	ECN 101 ECN 102	ECN 100 with a grade of C- or better or Eligibility for MTH 095 ECN 100 with a grade of C- or better or Eligibility for MTH 095	3		
Social Science Elective (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Statistics (D) or Mathematics for Business Decisions	MTH 142 BUS 170	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination CSI 111, BUS 115 or BUS 215, Eligibility for MTH 095	3		
PROGRAM REQUIREMENTS			31-32		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Introduction to Business	BUS 101		3		
Professional Etiquette	BUS 112		1		
Money Management	BUS 114	Eligibility for MTH 085	1		
Computer Applications or Computer Concepts with Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Spreadsheets or Advanced Computer Applications	BUS 215 BUS 216	BUS 115 or CSI 111	3 3		
Business Communication	BUS 220	ENG 101	3		
Business Law	LAW 211		3		
Principles of Management	MGT 230		3		
Principles of Marketing	MKT 240		3		
PROGRAM ELECTIVES			6		
Business Electives ¹			3		
Business Electives ¹			3		
Total Credits			60 - 61		

PROGRAM OVERVIEW

The Business Administration career option focuses on general business and prepares students for entry-level managerial positions within various types of organizations. This is a two-year terminal degree, and upon graduation, students will be prepared for entry-level jobs in a wide range of businesses. They will be able to interpret accounting data and analyze financial statements, apply the marketing concept, appreciate the role of law in business and define traditional functions of management and their contribution to strategic planning.

Students who intend to transfer should look at the following options: BO23 (Mass Transfer to UMass and Westfield State University; GPA 3.0 required for UMass), BO34 (General Transfer to most 4-year private colleges), BO37 (Marketing Management General Transfer Option to most 4-year private colleges), BO45 (Paralegal Option for transfer to Elms College and Bay Path College).

NOTES

¹ Select from: ACC, BUS, CSI, HCA, LAW, MGT, MKT, SEC or SPO.

Depending on the course selection 100% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

BUSINESS ADMINISTRATION-GENERAL TRANSFER OPTION – B034

A.S. in Business Administration

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

PROGRAM OVERVIEW

The Business Administration transfer NON-COMPACT TRANSFER OPTION focuses on general business and prepares students for transfer to four-year institutions outside of the Massachusetts system of public higher education. Upon graduating from this program, students will be able to interpret accounting data, analyze financial statements and solve complex accounting

scenarios, apply the marketing concept, appreciate the role of law in business, define traditional functions of management and their contributions to strategic planning and calculate and quantify data to make business decisions. **Not for students who want to transfer to UMass Amherst or any other state school.**

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			29-31		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Social Science Elective (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math Electives (D) ¹			3-4		
Math Electives (D) ¹			3-4		
PROGRAM REQUIREMENTS			25-26		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Managerial Accounting ²	ACC 205	ACC 112	3		
Professional Etiquette	BUS 112		1		
Money Management	BUS 114	Eligibility for MTH 085	1		
Computer Applications or Computer Concepts w/Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Business Law	LAW 211		3		
Principles of Management	MGT 230		3		
Principles of Marketing	MKT 240		3		
PROGRAM ELECTIVES			9		
Humanities Electives (C) or Business Electives ³			3		
Humanities Electives (C) or Business Electives ³			3		
Humanities Electives (C) or Business Electives ³			3		
Total Credits			63-66		

NOTES

If students are planning to transfer to the University of Massachusetts Amherst, or one of the Massachusetts State Colleges or Universities, they must enroll in the Business Administration MassTransfer Option.

¹ Select from MTH 162(D), MTH 113(D), MTH 114(D), or MTH 142(D). Students will not receive credit for both MTH 162 and MTH 113.

American International College: MTH 142 and MTH 162. **Bay Path College:** MTH 142 and MTH 162. **Elms College:** MTH 142 and student's choice of MTH 162, 113, or 114. **Western New England University:** MTH 142 and MTH 162.

² Students transferring to Bay Path College should take BUS 245 instead of ACC 205.

³ Select from: ACC, BUS, CSI, HCA, LAW, MGT, MKT, SEC, SPO.

Students should check with their academic advisor to be sure that their choices will transfer to their selected institutions. Students are advised to confer with the Transfer Coordinator or their academic advisor, as transfer institutions periodically change math requirements.

Students planning to attend a transfer institution listed below **MUST** take that institution's required math courses as indicated:

Depending on the course selection 100% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

BUSINESS ADMINISTRATION MASS TRANSFER OPTION – B023

A.S. in Business Administration

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			38		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Social Science Elective (B) ¹			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Statistics (D)	MTH 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
Applied Calculus (D) ²	MTH 162	MTH 104 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
PROGRAM REQUIREMENTS			23-24		
Principles of Accounting I	ACC 111	Students must be eligible for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Managerial Accounting	ACC 205	ACC 112	3		
Computer Applications or Computer Concepts w/Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Business Law	LAW 211		3		
Principles of Management	MGT 230		3		
Principles of Marketing	MKT 240		3		
GENERAL ELECTIVES ² <i>(Any course listed in the catalog)</i>			3		
General Elective			3		
Total Credits			64-65		

PROGRAM OVERVIEW

The Business Administration MassTransfer Option is for students who plan on transferring to the University of Massachusetts Amherst as well as the other Massachusetts State colleges and universities. Students unsure of their future transfer plans, should enroll in this program. Upon graduating from this program, students will be able to interpret accounting data, analyze financial statements and solve complex accounting scenarios, apply the marketing concept, appreciate the role of law in business, define traditional functions of management and their contribution to strategic planning and calculate and quantify data to make business decisions.

NOTES

¹ Students planning to transfer to UMass Amherst should select SOC 110 to complete the universities requirements.

² Students who do not test out of MTH 104 may take it in place of a general elective or as additional credits not contained within the 65 listed above.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges and universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree. (3.0 GPA required.)

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

CHEMISTRY OPTION – N012

A.A. in Arts and Science

CONTACT

Carl Satterfield, (413) 552-2174, csatterfield@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Inorganic Chemistry I (Fall)	CHM 121	High School Algebra I or equivalent. High School Chemistry recommended.	4		
Inorganic Chemistry II (Spring)	CHM 124	CHM 113 or CHM 121	4		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Calculus I (D)	MTH 113	MTH 108 or adequate score on the Mathematics Placement Exam	4		
PROGRAM REQUIREMENTS			8		
Organic Chemistry I (Fall)	CHM 221	CHM 124, 114, or 102 with permission of instructor	4		
Organic Chemistry II (Spring)	CHM 222	CHM 221 or one previous semester of organic chemistry	4		
SUGGESTED ELECTIVES ¹ <i>(Sufficient to complete 60 credit graduation requirement)</i>			16		
Advanced Academic Writing	ENG 218	ENG 102	3		
Elementary French I	FRH 101		3		
Elementary French II	FRH 102	French 101 or 2 years of High School French	3		
Intermediate French I	FRH 201	FRH 102 or minimum level of achievement on Placement test	3		
Intermediate French II	FRH 202	FRH 102 or minimum level of achievement on Placement test	3		
Calculus II	MTH 114	MTH 113	4		
Calculus III (Fall)	MTH 213	MTH 114	4		
General Physics I (Fall)	PHS 101	MTH 104 or adequate score on the Mathematics Placement Examination	4		
General Physics II (Spring)	PHS 102	PHS 101	4		
Total Credits			60		

PROGRAM OVERVIEW

An A.A. degree in chemistry will allow students to transfer to a program offering either a B.A. or B.S. degree in chemistry or related science. The A.A. degree in chemistry also leads to work as a laboratory technician in such areas as biotechnology, environmental studies, and food technology.

Transfer students must determine their electives, particularly the foreign language, based on the requirements of the institute to which the student is transferring.

NOTES

¹ PHS 111-112 (required by some schools) can be substituted for PHS 101-102.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Only 6 credits or two non-arts and science courses may be taken as general electives.

COACHING CERTIFICATE – M105

CONTACT

Patti Mantia, Ed.D, (413) 552-2449, pmantia@hcc.edu

PROGRAM OVERVIEW

The Coaching Certificate is designed for the individual who is interested in working as a coach of sport and recreation. Students will use materials from and prepare for the national examination of the American Sports Education Program. Upon completion of the program, the student will be able to:

- Define the roles and responsibilities of the coach;
- Define his/her personal coaching philosophy and discuss how it influences coaching style;
- Demonstrate effective teaching and communication skills as applied to coaching;
- Identify and discuss cultural, social and psychological influences that influence athletes and methods to manage behavior on and off the field;
- Explain and demonstrate assessments used to measure athletic ability and monitor athletic outcomes;
- Demonstrate effective methods to teach technical and tactile skills;
- Develop a physical conditioning plan using a periodization model;
- Outline a basic plan for sports nutrition and hydration and discuss the cost:benefit ratio of Ergogenic aids;
- Identify areas of potential risk and outline methods to minimize liability and ensure well-being of the athletes including basic emergency care procedures.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			10		
Standard First Aid and Personal Safety/CPR <u>or</u> Sports First Aid	HFN 103 HFN 104	Students can not receive credit for both HFN 103 and HFN 104	1		
Fundamentals of Coaching	HFN 110		3		
Coaching Sports Youth	HFN 112	HFN 110 or instructor permission.	3		
Physical Conditioning I	HFN 180		1		
Physical Conditioning II	HFN 181		1		
Physical Conditioning III	HFN 182		1		
PROGRAM ELECTIVES <i>(Select two from the following)</i>			6		
Sociology of Sport	SOC 240	SOC 110	3		
Psychology of Sport	PSY 250	PSY 110	3		
Sport Law (Spring)	SPO 211		3		
Topics in Sports	HFN 111		3		
Total Credits			16		

COMMUNICATION, MEDIA & THEATER ARTS INTEGRATED STUDIES (CMTA) – H043

A.A in Arts and Science

CONTACT

Timothy Cochran, (413) 552-2484, tcochran@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Public Speaking (C)	COM 150		3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Mathematics (D)			3-4		
PROGRAM REQUIREMENTS <i>(Select 7 from COM or EMS or THE courses)</i>			21-22		
			3		
			3		
			3		
			3		
			3		
			3		
			3		
GENERAL ELECTIVES			4		
			1-3		
			1-3		
Total Credits			60-61		

PROGRAM OVERVIEW

The CMTA Integrated Studies Option is designed to allow students to create their own program of study integrating different areas within Communication, Media, Theater Arts, and other fields.

Students interested in this Option must meet with a member of the Communication, Media, and Theater Arts Department to design their courses of study that will provide the best foundation for transferring to a four-year institution, or for entering the job market. The program prepares students who wish to pursue careers in the fields of:

- Advertising
- Animation
- Broadcasting/Broadcast Media
- Business
- Communication
- Digital Audio Production
- Education
- Film
- Government
- Government Relations
- Graphic Design
- Journalism
- Media
- Multimedia Design
- Photography
- Politics
- Public Relations
- Sales/Marketing
- Social Media
- Theater
- Video
- Web Design

NOTES

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

For more information about the CMTA Intergrated Studies Option see www.hcc-cmta.org

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

COMMUNICATION – H012

A.A in Arts and Science

CONTACT

Timothy Cochran, (413) 552-2484, tcochran@hcc.edu

PROGRAM OVERVIEW

The communication option provides a foundation understanding of communication in society and in our everyday lives.

Goals of the program are both skills-based and analytical: to foster effective communication to develop an understanding of media institution, media history and the effects

of media on society and individuals.

The program prepares students for transfer to a 4-year institution, and is suited for students who wish to pursue careers in the field of:

- Broadcasting
- Journalism
- Advertising
- Public Relations
- Business
- Politics
- Communication
- Theater
- Education
- Social Media
- Film

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Mathematics (D)			3-4		
PROGRAM REQUIREMENTS			9		
Public Speaking	COM 150		3		
Intro to Mass Communication	COM 131	Students will not get credit for taking COM 114 and COM 131	3		
Intro to Communication	COM 121		3		

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COMMUNICATION – H012 *continued*

A.A in Arts and Science

CONTACT

Timothy Cochran, (413) 552-2484, tcochran@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES <i>(Select 4 courses from the list below. At least 2 courses must have a COM designation)</i>			12		
Professional Speaking	COM 107	COM 150	3		
Journalism or Intro to Electronic Media	COM 113 EMS 111	Eligibility for ENG 101	3		
Journalism II	COM 116	COM 113	3		
Intro to Radio Broadcasting	COM 122		3		
Radio Production	COM 123		3		
Practicum in Communication	COM 141		3		
Group Dynamics	COM 212	PSY 110	3		
History & Criticism of Film	EMS 218	ENG 102	3		
Great Film Directors	EMS 225	ENG 101	3		
Fundamentals of Acting	THE 110		3		
Voice & Diction	THE 218		3		
SUGGESTED ELECTIVES <i>(Sufficient to complete 60 credits)</i>			1-4		
			1-4		
Total Credits			60-61		

NOTES

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

COMPUTER INFORMATION SECURITY AND ASSURANCE OPTION – N063

A.S. in Computer Information Systems

CONTACT

Casey Storozuk, (413) 552-2429, cstorozuk@hcc.edu

PROGRAM OVERVIEW

This program prepares students for an entry-level position in Internet security, network, systems or support administrators/specialist. Information and network security is a problem that almost every company faces; one of the biggest assets a company has is its data. In the field of information security and assurance, there are currently

too few professionals and in the growing global economy there will continue to be a need for professionals in the field.

Upon completion of this program, students will be able to:

- Integrate new security skills into their current computer networking skills.
- Serve on corporate teams to evaluate and plan for network and database security.
- Set up and evaluate security systems.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Introduction to Robotics (D)	EGR 110		4		
Laboratory Science (D)			4		
PROGRAM REQUIREMENTS			40-41		
Introduction to Criminal Justice	CRJ 100	Eligibility for ENG 095	3		
Computer Concepts or Computer Concepts with Applications	CSI 101 CSI 111	Eligibility for ENG 101. Students may not receive credit for both CSI 101 and CSI 111	3-4		
Business Data Communications	CSI 120	CSI 101 or CSI 111	3		
Systems Support I—Hardware (Fall)	CSI 211	CSI 101 or CSI 111	3		
System Support II—Software (Fall)	CSI 216	CSI 101 or CSI 111	3		
Network Development (Spring)	CSI 251	CSI 101 or CSI 111	3		
Introduction to Security or Principles of Information Security and Assurance	CRJ 105 SEC 105	Eligibility for ENG 095 CSI 101 or CSI 111	3		
Information Security Assurance and Administration (Spring)	SEC 261	CRJ/SEC 105	3		
Operating System Security and Assurance (Fall)	SEC 263		3		
Network Security and Assurance (Fall)	SEC 267	SEC 105	3		
Management of Network Defense and Countermeasures (Spring)	SEC 268	SEC 267	3		

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COMPUTER INFORMATION SECURITY AND ASSURANCE OPTION – N063 *continued*

A.S. in Computer Information Systems

CONTACT

Casey Storozuk, (413) 552-2429, cstorozuk@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
System Analysis & Design	CSI 214	12 CSI credits	3		
Calculus	MTH 113	MTH 108 or adequate score on the Mathematics Placement Exam	4		
Total Credits			60 - 61		

NOTES

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

COMPUTER INFORMATION SECURITY AND ASSURANCE MANAGEMENT CERTIFICATE – N064

CONTACT

Casey Storozuk, (413) 552-2429, cstorozuk@hcc.edu

PROGRAM OVERVIEW

This certificate program prepares students to enter the field of Computer Information Security, a fast-growing field. Currently there are too few professionals to fill the positions available. Graduates with a certificate may be hired as entry-level Internet, security, network systems or support administrators or specialists and will be prepared to integrate new security skills into their responsibilities and serve on corporate security teams.

Upon completion of this certificate program, students will be able to:

- Write and administer security policies and procedures.
- Create and establish a disaster recovery plan.
- Direct personnel to secure data during an incident response.
- Lead countermeasures for data intrusion and manage security.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			24-25		
Computer Concepts <u>or</u> Computer Concepts with Applications	CSI 101 CSI 111	Eligibility for ENG 101	3-4		
Principles of Management	MGT 230		3		
Principles of Information Security and Assurance	SEC 105	CSI 101 or CSI 111	3		
Information Security Assurance and Administration (spring)	SEC 261	CRJ 105 or SEC 105	3		
Operating System Security and Assurance	SEC 263	CRJ 105 or CSI 216			
Network Security and Assurance (fall)	SEC 267	SEC 105	3		
Management of Network Defense and Countermeasures (spring)	SEC 268	SEC 267	3		
Systems Analysis and Design (spring)	CSI 214	12 CSI / SEC credits	3		
Select any CSI or SEC course			3-4		
Total Credits			27-29		

NOTES

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

COMPUTER INFORMATION SECURITY AND ASSURANCE MANAGEMENT OPTION: TECHNICAL SPECIALIST CERTIFICATE – N065

CONTACT

Casey Storozuk, (413) 552-2429, cstorozuk@hcc.edu

PROGRAM OVERVIEW

This certificate program prepares students to enter the field of Computer Information Security, a fast-growing field. Currently there are too few professionals to fill the positions available. Graduates with a certificate may be hired as entry-level Internet, security, network systems or support administrators or specialists and will be prepared to integrate new security skills into their responsibilities and serve on corporate security teams.

Upon completion of this program, students will be able to:

- Implement network and physical security.
- Install and maintain firewalls.
- Execute the disaster recovery plans.
- Establish operating system security and user accounts
- Develop network domains and groups.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			24-25		
Computer Concepts or Computer Concepts with Applications	CSI 101 CSI 111	Eligibility for ENG 101	3-4		
System Support I - Hardware	CSI 211	CSI 101 or CSI 111	3		
System Support II - Software	CSI 216	CSI 101 or CSI 111	3		
Network Development (Spring)	CSI 251	CSI 101 or CSI 111	3		
Principles of Information Security and Assurance	SEC 105	CSI 101 or CSI 111	3		
Operating System Security (Fall)	SEC 263		3		
Network Security and Assurance (Fall)	SEC 267	SEC 105 or corequisite	3		
Management of Network Defense and Countermeasures (Spring)	SEC 268	SEC 267	3		
Select any CSI or SEC courses			3-4		
Total Credits			27-29		

NOTES

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

COMPUTER NETWORKING CERTIFICATE – N062

CONTACT

Casey Storozuk, (413) 552-2429, cstorozuk@hcc.edu

PROGRAM OVERVIEW

This certificate is designed to provide students with a hands-on working knowledge of how businesses store, maintain and share vast amounts of information and focuses upon the technical aspects of maintaining, troubleshooting and repairing computer and network systems, including analyzing and finding solutions to problems experienced by individual computer users.

Upon completion of the requirements of this certificate, the student will be able to:

- Work on the technical aspect of maintaining, troubleshooting and repairing computer and network systems.
- Enter a number of career paths in all segments of business and industry as help desk technicians, network administrators, information technology specialists, PC analysts or systems analysts.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			24-25		
Computer Concepts or Computer Concepts with Applications	CSI 101 CSI 111	Eligibility for ENG 101	3-4		
Systems Support I—Hardware (fall)	CSI 211	CSI 101 or CSI 111	3		
System Support II—Software (fall)	CSI 216	CSI 101 or CSI 111	3		
Network Development (spring)	CSI 251	CSI 101 or CSI 111	3		
Systems Analysis & Design (spring)	CSI 214	12 CSI credits	3		
Current Topics in Information Systems	CSI 250	12 CSI credits	3		
Principles of Information Security and Assurance	SEC 105	CSI 101 or CSI 111	3		
Network Security and Assurance	SEC 267	SEC 105	3		
Total Credits			24-25		

COMPUTER USER SUPPORT OPTION – N067

A.S. in Computer Information Systems

CONTACT

Casey Storozuk, (413) 552-2429, cstorozuk@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Introduction to Robotics (D)	ERG 110		4		
Laboratory Science (D)			4		
PROGRAM REQUIREMENTS			31-32		
Computer Concepts or Computer Concepts with Applications	CSI 101 CSI 111	Eligibility for ENG 101	3-4		
Systems Support I—Hardware	CSI 211	CSI 101 or CSI 111	3		
Systems Analysis & Design	CSI 214	12 CSI credits	3		
System Support II—Software	CSI 216	CSI 101 or CSI 111	3		
Database Management	CSI 242		3		
Current Topics Information Systems	CSI 250	12 CSI credits	3		
Network Development	CSI 251	CSI 101 or CSI 111	3		
Principles of Information Security and Assurance	SEC 105	CSI 101 or CSI 111	3		
Information Security and Assurance Administration	SEC 261	CRJ/SEC 105	3		
Calculus I or Statistics	MTH 142 MTH 113		3-4		
PROGRAM ELECTIVES <i>(Select two from the following)</i>			9-10		
Principles of Accounting I	ACC 111	Students must be eligible for MTH 085.	4		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Social Science Elective (B)			3		
Total Credits			60-62		

PROGRAM OVERVIEW

This two-year degree program prepares students to enter the field of Computer User Support in an entry-level position, and to take Industry Certification Exams such as A+.

Upon completion of this program, students will be able to:

Work on the technical aspect of maintaining, troubleshooting and repairing computer and network systems.

Begin an entry level career as a network manager, “help desk” technician, microcomputer technician and information support personnel.

Build the technical, managerial, and inter-personal skills to succeed in a variety of business and Information Technology settings.

NOTES

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

CREATIVE WRITING OPTION – H015

A.A. in Arts and Science

CONTACT

Dave Champoux, (413) 552-2364, dchampoux@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			26-27		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science (B)			3		
Social Science (B)			3		
Social Science (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math (D)			3-4		
PROGRAM REQUIREMENTS			18		
Creative Writing	ENG 217	ENG 102	3		
Creative Writing for the Theater (Spring)	ENG/THE 227	ENG 102	3		
Creative Non-Fiction (Fall)	ENG 231	ENG 102	3		
200 - Level English Literature Course			3		
Theater, Communications, or Electronic Media Course			3		
Theater, Communications, or Electronic Media Course			3		
SUGGESTED ELECTIVES ¹ <i>(Sufficient to complete 60 credit graduation requirement)</i>			18		
			3		
			3		
			3		
			3		
			3		
			3		
Total Credits			62-63		

PROGRAM OVERVIEW

HCC's Creative Writing Option is one of only a few of its kind in the country for students pursuing an Associate Degree. It's a solid academic program that allows students to explore a personal interest, while at the same time follow the guidelines of a typical Associate of Arts degree, including the MassTransfer general education transfer block which guarantees credit transfer to Massachusetts state colleges and universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

With the right planning, students can go on to just about any Arts and Science discipline after earning their A.A. degree with this option. A designated faculty advisor will guide them. In their final semester, students will assemble a portfolio of representative work, along with a personal statement about their experiences and accomplishments in Creative Writing at HCC.

NOTES

¹You may choose any Arts and Science electives. Especially suggested are the 200-level English Literature courses, Topics in Creative Writing, the Screenwriting Seminar, or a Theatre or Communications course. You could use these electives to give your Creative Writing work a theme: for example, if you are interested in writing historical fiction, you might take some History classes. You have the flexibility to explore beyond your Creative Writing interests as well.

Only six non-Arts and Science credits may be taken towards an A.A. degree.

Depending on the course selection, 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

CRIMINAL JUSTICE – S080

A.S. in Criminal Justice

CONTACT

Nicole Hendricks, (413) 552-2175, nhendricks@hcc.edu

PROGRAM OVERVIEW

Students graduating with an Associate Degree of Science in Criminal Justice from Holyoke Community College should:

Think critically about contemporary issues in criminal justice in an increasingly complex, technological, and diverse society.

Communicate effectively both orally and in writing.

Develop both quantitative and qualitative skills and abilities to critically analyze crime and criminal justice issues, for policy-making and problem-solving.

Demonstrate an awareness of issues of diversity, including but not limited to race, gender, ethnicity, sexual orientation, age, social class, disability, and religious belief.

Understand the interdisciplinary nature of the field and ethical issues in the American criminal justice system.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			26-27		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
U.S. National Government (B) or State and Local Government (B)	POL 110 POL 120		3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math (D)			3 - 4		
PROGRAM REQUIREMENTS			24-25		
Introduction to Criminal Justice	CRJ 100	Eligibility for ENG 095	3		
Introduction to Corrections	CRJ 103	Eligibility for ENG 095	3		
Introduction to Security	CRJ 105	Eligibility for ENG 095	3		
Criminology	CRJ 117	SOC 110 or PSY 110	3		
Criminal Law and Procedure	CRJ 112	CRJ 100	3		
Police Operations	CRJ 207	CRJ 100	3		
Human Relations: Diversity and Ethical Issues	CRJ 210	SOC 110 or PSY 110	3		
Computer Concepts with Applications or Computer Applications	CSI 111 BUS 115	Eligibility for ENG 101	4 - 3		

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Read the catalog online at www.hcc.edu/catalog

CRIMINAL JUSTICE – S080 *continued*

A.S. in Criminal Justice

CONTACT

Nicole Hendricks, (413) 552-2175, nhendricks@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES (Select four) <i>Three Humanities(C) Required for Transfer Compact Requirements or MassTransfer Block</i>			12		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Criminal Evidence	CRJ 102	CRJ 100 and CRJ 112	3		
Child Abuse and Neglect	CRJ 110	SOC 110 or PSY 110	3		
Contemporary Issues in Criminal Justice	CRJ 200	SOC 110 or PSY 110	3		
Criminal Investigation and Crime Analysis	CRJ 205	CRJ 100 and CRJ 112	3		
Juvenile Delinquency	CRJ 208	SOC 110 or PSY 110	3		
Probation and Parole	CRJ 211	CRJ 100 and SOC 110 or PSY 110	3		
Women, Crime and Justice	CRJ 217 / WST 217	SOC 110 or PSY 110	3		
Information Security Administration	CSI 261	CRJ 105	3		
Substance Abuse	HSV 208 / SOC 208	PSY 110 or SOC 110	3		
Ethics	PHI 120		3		
Forensic Psychology	PSY 240	PSY 110	3		
Urban Sociology	SOC 213	SOC 110	3		
Social Problems	SOC 214	SOC 110	3		
Sociology of Race and Ethnicity	SOC 220	SOC 110	3		
Soul of a Citizen: Topics in Community Service Learning	SSN 104	Eligibility for ENG 101	3		
Cooperative Education in the Social Sciences I, II	SSN 280-281	SSN 280: 24 credits and Economics and Government: Two courses in the field. Psychology and Sociology: Two courses in the field or in the two fields. Criminal Justice: CRJ 100, CRJ 111, SOC 110, and PSY 110 SSN 281: SSN 280	3		
Social Science Elective (B)			3		
TOTAL CREDITS			62-64		

NOTES

1. Department of Higher Education guidelines authorized by Section 18L of Chapter 41 in the Massachusetts General Laws DO NOT allow academic credit to be granted for:

- Life experience or military, police or other training; or
- Academic credit for knowledge-based testing (CLEP, DANTES, etc) to exceed 6 credits; or
- Tech-Prep credit.

2. Students being re-admitted into the CRJ Program will enroll in the current program of study.

3. Students selecting this major are advised that employers in Criminal Justice and related fields conduct CORI and SORI checks pursuant to Massachusetts General Laws, Chapter 6, Sections 172-178 and regulations promulgated to such statutes.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

CULINARY ARTS CERTIFICATE – B111

CONTACT

Kristine Ricker Choleva, (413)552-2565, kcholeva@hcc.edu

PROGRAM OVERVIEW

The Culinary Certificate Program prepares students for various types of cooking positions, in the diverse field of foodservice. The Program is accredited by the American Culinary Federation and HCC is the only Massachusetts community college with this certification. The Certificate serves as the first year to HCC's A.S. in Foodservice Management, as well as preparing students to go on to culinary degree-granting institutions such as Johnson & Wales University,

the Culinary Institute of America, and New England Culinary Institute.

Upon graduating from this Program, students will be able to use a hands-on approach to identify, define and appropriately handle a vast variety of food product and equipment as utilized in the commercial kitchen, dining room and bakeshop. Students will understand the current industry standards as well as legal and

ethical issues involved in the safe-handling and service of food beverages. They will use a teamwork-based business approach to identify, define, respond to and evaluate problems and resolutions in various foodservice industry situations and to further an understanding of professional development in the industry, utilize basic arithmetic, and understand current nutritional issues.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			31		
Culinary Foundations I	CUL 100	Elibility for MTH 085; ENG 085 with a grade of C- or better or adequate score on the reading comprehension portion of the placement examination. CUL 115 Pre or Co-Requste	3		
Culinary Foundations II	CUL 101	A grade of C- or better in CUL 100	3		
Professional Standards for the Foodservice Industry	CUL 104		1		
Special Events Skills (Fall)	CUL 105	Prerequisite or co-requisite: CUL 100	2		
Baking Theory and Practice	CUL 110	Elibility for MTH 085; ENG 085 with a grade of C- or better or adequate score on the reading comprehension portion of the placement examination.	3		
Sanitation and Safety	CUL 111		2		
Culinary Math	CUL 115	Elibility for MTH 085	1		
Nutrition for Foodservice Professionals (Spring)	CUL 203	CUL 100	3		
Professional Standards for the Foodservice Industry II (Spring)	CUL 204	A grade of C- or better in CUL 104	1		
Foodservice Cost Control (Spring)	CUL 215	CUL 101 and CUL 115 with a C- or better	3		
A la Carte Cooking and Service (Spring)	CUL 230	Grade of C- or better in CUL 101 and passing score on NRAEF ServSafe Certification Exam	6		
Banquet Cooking and Service (Spring)	CUL 250	Grade of C- or better in CUL 101 or HCA 130, and a passing score on the NRAEF ServSafe Certification Exam	3		
Total Credits			31		

NOTES

Students must pass the NRAEF ServSafe exam in order to complete the requirements for attaining the certificate.

NTR 101 may be substituted for CUL 203

CUL 111 may be waived in lieu of an earned and valid ServSafe Certificate

DAY CARE ADMINISTRATION CERTIFICATE – M025

CONTACT

Tricia Kiefer, (413) 552-2450, tkiefer@hcc.edu

PROGRAM OVERVIEW

This program is designed for child care professionals who are Lead Teacher certified by the MA Department of Early Education and Care (DEEC) or hold a degree in Early Childhood Education. This program provides the educational component for Director-II eligibility in group child care settings licensed by the MA Department of Early Education and Care (DEEC). Additional requirements may need to be completed in order to apply for Director-II certification. Participants must be employed in a licensed child care setting and work directly with children for a minimum of 12 hours per week while enrolled in the program.

Graduates of HCC Education programs are expected to demonstrate developing skills toward all required teacher competencies. The Education Department Student Learning Outcomes are (A) knowledge of child development; (B) provision of a nurturing environment for young children and families; (C) assessment of typical child development through formal observations, informal developmental checklists, and discussions with parents; (D) provision of a safe and healthy early childhood setting that exceeds current EEC standards; (E) identification of children who demonstrate behaviors or skill acquisition diffi-

culties that may require intervention; (F) application of appropriate and effective behavior management strategies in an early childhood setting; (G) development of age appropriate lesson plans and materials; (H) demonstrated use of computer application programs both professionally and with young children in an educational setting; (I) competent and professional oral and written communication; (J) interpersonal and job performance skills that reflect the professionalism demanded by early child care centers; and (K) critical thinking and problem solving skills.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			24		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
Education in America	EDU 100		3		
Child Development and Behavior	EDU 104	Eligibility for ENG 101	3		
Health, Safety, and Nutrition for Young Children	EDU 203	EDU 104 with a grade of C or better and ENG 101 eligibility	3		
Children with Disabilities in the Educational Setting	EDU 208	EDU 104 Child Development and Behavior with a grade of C or better and ENG 101 eligibility	3		
Assessment, Observation, and Documentation	EDU 218	Satisfactory completion of 30 credits of work (sophomore standing) that includes EDU 100, 101, 104, 208, 210 All EDU courses with a grade of C or better and ENG 102	3		
Day Care Policy and Staff Development	EDU 220	EEC Lead Teacher Certified. Co-requisite: Employment in a Licensed Day Care facility (working directly with preschool-aged children for a minimum of 12 hour per week)	3		
Day Care Administration	EDU 230	EEC Lead Teacher Certified. Co-requisite: Employment in a Licensed Day Care facility (working directly with preschool-aged children for a minimum of 12 hours per week)	3		
TOTAL CREDITS			24		

NOTES

Students must achieve a minimum grade of "C" in all EDU prefix courses in order to graduate from these programs and options.

******Criminal Offense Record Act (CORI),
and Sex Offender Registry Information (SORI)******

Students enrolled in EDU 100, EDU 104, EDU 101, EDU 208, and EDU 213 will be subject to a CORI/SORI check and review pursuant to the Criminal Record

Information Act, Massachusetts General Laws, Chapter 6, Section 172-178, and Massachusetts General Laws, Chapter 18a, Section 1, et seq., and regulations promulgated pursuant to such statutes. Applicants with a court record/past conviction may be unable to participate in student teaching. If a student is ineligible to do student teaching due to a criminal record, the student will not be able to graduate from the Early Childhood Program. The college policy can be found in the Student Handbook.

DEAF STUDIES CERTIFICATE – H081

CONTACT

Claire Sanders, (413) 650-5368, csanders@hcc.edu

PROGRAM OVERVIEW

The Deaf Studies Certificate is designed for students holding a degree in another field who already have basic American Sign Language skills.

Upon completion of this certificate, students will be able to:

- Communicate with Deaf/hard-of-hearing people at an advanced level in American Sign Language
- Demonstrate respect and an in-depth un-

derstanding towards the Deaf/hard-of-hearing population as well as its culture, history and literature

- Provide resources for Deaf/hard-of-hearing people
- Educate other people about Deaf people and provide deaf-related resources
- Advocate with the Deaf/hard-of-hearing community relating to sensitive issues

Professional career opportunities with prior or further education include, but are not limited to: teacher, counselor, interpreter, dormitory residential advisor, audiologists, speech-language pathologist, parent-infant specialist.

Students will become more proficient in ASL as well as becoming familiar with the culture, history and literature of deaf people, and will gain experience working with this population.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			24		
American Sign Language III (Fall)	ASL 201	C or better in ASL102 or appropriate score on ASL Competency Exam	3		
American Sign Language IV (Spring)	ASL 202	C or better in ASL201 or appropriate score on ASL Competency Exam	3		
Introduction to Deaf Studies	DFS 101		3		
Deaf Culture (Spring)	DFS 104	ENG 101	3		
Deaf History (Fall)	DFS/HIS 108	ENG 101	3		
Pre-Practicum in Deaf Studies (Fall)	DFS 204	ENG 101 and DFS 101	3		
Deaf Literature (Spring)	DFS 205	ENG 102 and ASL 201	3		
Practicum in Deaf Studies (Spring)	DFS 213	DFS 204 (Pre-Practicum In Deaf Studies), ASL 201 and permission from the Deaf Studies department chair.	3		
Total Credits			24		

DEAF STUDIES OPTION – H080

A.S. in Arts and Science

CONTACT

Claire Sanders, (413) 650-5368, csanders@hcc.edu

PROGRAM OVERVIEW

The two-year program prepares students to work with the deaf and hard-of-hearing population in a variety of entry-level positions.

Upon completion of this degree, students will be able to:

- Communicate with Deaf/hard-of-hearing people at an advanced level in American Sign Language
- Show respect for and an in-depth understanding towards the Deaf/hard-of-hearing population

- Obtain a rich knowledge of the culture, history and literature of Deaf people
- Possess a practicum experience at a setting involving the Deaf community

Students will use these ASL competencies and knowledge to help them further study at a four-year institution or pursue an entry-level career. Entry-level career opportunities include, but are not limited to: para-educators, dormitory residential advisors, job coaches, and communication specialists.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			26-27		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
Social Science (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math Elective (D)			3-4		
PROGRAM REQUIREMENTS			30		
American Sign Language I	ASL 101		3		
American Sign Language II (Spring)	ASL 102	C or better in ASL101 or appropriate score on ASL Competency Exam	3		
American Sign Language III (Fall)	ASL 201	C or better in ASL102 or appropriate score on ASL Competency Exam	3		
American Sign Language IV (Spring)	ASL 202	C or better in ASL201 or appropriate score on ASL Competency Exam	3		
Introduction to Deaf Studies	DFS 101		3		
Deaf Culture (Spring)	DFS 104	ENG 101	3		
Deaf History (Fall)	DFS/HIS 108	ENG 101	3		
Pre-Practicum in Deaf Studies (Fall)	DFS 204	ENG 101 and DFS 101	3		
Deaf Literature (Spring)	DFS 205	ENG 102 and ASL 201	3		
Practicum in Deaf Studies (Spring)	DFS 213	DFS 204 (Pre-Practicum In Deaf Studies), ASL 201 and permission from the Deaf Studies department chair.	3		

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DEAF STUDIES OPTION – H080 *continued*

A.S. in Arts and Science

CONTACT

Claire Sanders, (413) 650-5368, csanders@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES <i>(Select one from the following)</i>			3		
Cultural Anthropology	ANT 101		3		
Introduction to Language and Linguistics	DFS/ENG/ANT 103	ENG 101	3		
Civil Liberties & Civil Rights	POL 140		3		
Social Psychology	SOC 210 / PSY 210	SOC 110 or PSY 110	3		
Human Development	PSY 216	PSY 110	3		
Educational Psychology	PSY 220	PSY 110	3		
Social Problems	SOC 214	SOC 110	3		
Conflict Resolution and Mediation	SSN 120		3		
GENERAL ELECTIVE <i>(Sufficient to complete 60 credit graduation requirement)</i>			0-1		
General Elective					
Total Credits			60		

DEVELOPMENTAL DISABILITIES DIRECT SUPPORT CERTIFICATE – S013

CONTACT

Jackie Griswold, Ed.D, (413) 552-2333, jgriswold@hcc.edu

PROGRAM OVERVIEW

The Developmental Disabilities Direct Support Certificate was created in collaboration with the Massachusetts Department of Developmental Services (DDS) to provide education for staff working in agencies that provide

residential programs, employment programs, and recreational, personal, and family supports for individuals with developmental disabilities. Staff currently working in agencies funded by DDS may be eligible for tuition benefits.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			28		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
Introduction to Psychology	PSY 110	Eligibility for ENG 101	3		
Introduction to Developmental Disabilities	DVD 110	Eligibility for ENG 101	3		
Introduction to Human Services	HSV 113	Eligibility for ENG 101	3		
The Helping Relationship: Delivering Human Services	HSV 124	HSV 113 and PSY 110	3		
Introduction to the Practicum	HSV 125	HSV 113; HSV 124 previously or concurrently; permission of department chair.	3		
Current Issues in Developmental Disabilities	DVD 210	HSV 113, DVD 110 and PSY 110	3		
Practicum in Human Services I	HSV 288	HSV 113, HSV 125, and PSY 110 with a grade of C or better; HSV 124 previously or concurrently, with a grade of C or better; PSY 216	4		
Human Development	PSY 216	PSY 110	3		
TOTAL CREDITS			28		

NOTES

50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

CORI (Criminal Offender Record Information) and SORI (Sexual Offender Registry Information) background checks may be required prior to field work and practicum placement and will be conducted by specific agencies in accordance with state regulations. CORI and SORI results are confidential.

EARLY CHILDHOOD CAREER OPTION – M026

A.S. in Early Childhood Education

CONTACT

Tricia Kiefer, (413) 552-2450, tkiefer@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			23		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Social Science (B)			3		
Laboratory Science (D) ¹			4		
Laboratory Science (D) ¹			4		
Number Systems(D)	MTH 125	MTH 095 with a grade of D - or better or adequate score on the Mathematics Placement Examination	3		
PROGRAM REQUIREMENTS			38		
Education in America	EDU 100		3		
Early Childhood Programs	EDU 101	Eligibility for ENG 101	3		
Child Behavior and Development	EDU 104	Eligibility for ENG 101	3		
Guiding Children's Behavior	EDU 120	EDU 104 with a grade of C or better and ENG 101 eligibility	3		
Health, Safety and Nutrition for Young Children	EDU 203	EDU 104 with a grade of C or better and ENG 101 eligibility	3		
Children with Disabilities in the Educational Setting	EDU 208	EDU 104 with a grade of C or better and ENG 101 eligibility	3		
Curriculum in Early Childhood Education	EDU 210	EDU 104 with a grade of C or better and ENG 101	4		
Infant and Toddler Development, Learning and Care	EDU 217	EDU 104, EDU 101 each with a grade of C or better and ENG 101 eligibility	4		
Assessment, Observation and Documentation	EDU 218	Satisfactory completion of 30 credits of work that includes EDU 100, 101, 104, 208, 210 All EDU courses with a grade of C or better and ENG 102	3		
Computer Technology in Education	EDU 268	EDU 104 with a grade of C or better and ENG 101 eligibility (sophomore status recommended)	3		
Student Teaching Practicum and Seminar	EDU 213*	Completion of 30 credits that includes EDU 100, 101, 104, 208, 210, ENG 101 & 102 passed with a grade of C or higher, a GPA of 2.7, prerequisites or co-requisites EDU 120 and EDU 218.	6		
Total Credits			61		

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Read the catalog online at www.hcc.edu/catalog

EARLY CHILDHOOD CAREER OPTION – M026 *continued*

A.S. in Early Childhood Education

CONTACT

Tricia Kiefer, (413) 552-2450, tkiefer@hcc.edu

PROGRAM OVERVIEW

This program is designed for those students interested in teaching in a community-based, group day care setting. Graduates of this program more than satisfy the course and experience requirements for “teacher” status in programs licensed by the Massachusetts Department of Early Education and Care (DEEC).

NOTES

¹ Students who are considering transferring should take BIO 101 and should consider ESC 110, 120, or ENV 120.

Students must achieve a minimum grade of “C” in all EDU prefix courses in order to graduate from these programs and options.

*Permission of Practicum Supervisor required.

******Criminal Offense Record Act (CORI), and Sex Offender Registry Information (SORI)******

Students enrolled in EDU 101, EDU 104, EDU 208, and EDU 213 subject to a CORI/SORI check and review pursuant to the Criminal Record Information Act, Massachusetts General Laws, Chapter 6 Section 172-178, and Massachusetts General Laws, Chapter 18a, Section 1, et seq., and regulations promulgated pursuant to such statutes. Applicants with a court record/past conviction may be unable to participate in student teaching. If a student is ineligible to do student teaching due to a criminal record, the student will not be able to graduate from the Education Program. The College policy can be found in the Student Handbook.

EARLY CHILDHOOD TRANSFER OPTION – M027

A.S. in Early Childhood Education

CONTACT

Tricia Kiefer, (413) 552-2450, tkiefer@hcc.edu

PROGRAM OVERVIEW

This program is designed for students interested in transferring to a four-year school for a degree in Early Childhood Education (Pre-K through Grade 2). In addition to

transfer, graduates of this program are eligible to apply for teacher certification through the Massachusetts Department of Early Education and Care (DEEC).

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			26		
College Composition I: Expository Writing and Research ²	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature ²	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
World Regional Geography (B)	GEO 110		3		
Social Science (B)			3		
General Biology for Non-Majors: The Processes of Life (D)	BIO 101	Eligibility for ENG 101	4		
Laboratory Science (D) ¹			4		
Number Systems (D)	MTH 125	MTH 095 with a grade of D - or better or adequate score on the Mathematics Placement Examination	3		
PROGRAM REQUIREMENTS			31		
Education in America	EDU 100		3		
Early Childhood Programs	EDU 101	Eligibility for ENG 101	3		
Child Development and Behavior	EDU 104	Eligibility for ENG 101	3		
Guiding Children's Behavior	EDU 120	EDU 104 with a grade of C or better and ENG 101 eligibility	3		
Children with Disabilities in the Educational Setting	EDU 208	EDU 104 with a grade of C or better and ENG 101 eligibility	3		
Assessment, Observation and Documentation	EDU 218	Satisfactory completion of 30 credits of work that includes EDU 100, 101, 104, 208, 210 All EDU courses with a grade of C or better and ENG 102	3		
Curriculum in Early Childhood Education	EDU 210	EDU 104 with a grade of C or better and ENG 101	4		
Student Teaching Practicum and Seminar	EDU 213	Completion of 30 credits that includes EDU 100, 101, 104, 208, 210, ENG 101 & 102 passed with a grade C or higher, a GPA of 2.7, prerequisites or co-requisites EDU 120 and EDU 218. And permission of the Education Department.	6		
Computer Technology in Education (PreK-6)	EDU 268	EDU 104 with a grade of C or better and ENG 101 eligibility (sophomore status recommended)	3		

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EARLY CHILDHOOD TRANSFER OPTION – M027 *continued*

A.S. in Early Childhood Education

CONTACT

Tricia Kiefer, (413) 552-2450, tkiefer@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES			9		
<i>(Select one from the following)</i>			3		
History of World Civilization I (Fall)	HIS 103				
Children's Literature	ENG 224	ENG 102			
<i>(Select one from the following)</i>			3		
Basic Design	ART 123				
Introduction to Art History I	ART 131	ENG 101			
Introduction to Art History II	ART 132	ENG 101			
Introduction to Theater	THE 100				
<i>(Select one from the following)</i>			3		
Music Fundamentals	MUS 100				
Introduction to Classical Music	MUS 110				
Introduction to World Music	MUS 106				
Introduction to Jazz	MUS 140				
Introduction to Theater	THE 100				
Total Credits			66		

NOTES

Students must achieve a minimum grade of "C" in all EDU prefix courses in order to graduate from these programs and options.

¹ Select one Laboratory Science from the following: AST 110, BIO 108, BIO 110, BIO 120, BIO 230, ESC 110, ESC 120, ENV 120. Students who are considering transfer to WSU should consider ESC 110, 120 or ENV 120

² Overall minimum GPA 2.7 for both ENG course requirements at WSU.

Criminal Offense Record Act (CORI), and Sex Offender Registry Information (SORI)

Students enrolled in EDU 101, EDU 104, EDU 208, and EDU 213 will be subject to a CORI/SORI check and review pursuant to the Criminal Record Information Act, Massachusetts General Laws, Chapter 6, Sec-

tion 172-178, and Massachusetts General Laws, Chapter 18a, Section 1, et seq., and regulations promulgated pursuant to such statutes. Applicants with a court record/past conviction may be unable to participate in student teaching. If a student is ineligible to do student teaching due to a criminal record, the student will not be able to graduate from the Education Program. The College policy can be found in the Student Handbook.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges and universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

ELECTRONIC MEDIA CERTIFICATE – H036

CONTACT

Justin West, (413) 552-2525, jwest@hcc.edu

PROGRAM OVERVIEW

May be completed in one year. Ideal for those not seeking a full degree but who wish to gain new career skills in video, multimedia, digital imaging, digital sound, multimedia design, animation and computer applications for media.

Students will develop a portfolio of their work while gaining skills that will help them in further study or to pursue a career in:

- Multimedia Design
- Graphic Design
- Video
- Public Relations
- Digital Imaging
- Broadcast Media
- Digital Audio Production
- Animation
- Journalism
- Web Design
- Communication
- Interactive Game Design
- Theater
- Education
- Photography
- Film

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			25		
Basic Design I or Basic Still Photography or Introduction to Designing for the Web	ART 123 ART 140 ART 266 / EMS 266	35mm SLR camera required ART 259 or EMS 111 or EMS 118	3		
Public Speaking or Introduction to Communication	COM 150 COM 121		3		
Introduction to Visual Media	EMS 105		3		
Fundamentals of Video	EMS 110	Video camera required	3		
Introduction to Electronic Media	EMS 111		3		
Topics in Electronic Media or any other 3-credit Electronic Media course	EMS 112 EMS xxx		3		
Electronic Media Seminar	EMS 201	EMS 101, 111, or 112	3		
Electronic Media Portfolio	EMS 204	EMS 201 and at least 21 credit of Electronic Media courses that may be taken concurrently	4		
Total Credits			25		

NOTES

*Please note that many EMS courses formerly carried the COM prefix

*For more information on the Electronic Media Program see www.hcc-cmta.org.

*Students in the Certificate Program are strongly encouraged to meet with an Electronic Media faculty member as soon as possible after beginning the program.

*Suggested first semester schedule:

- EMS 105
- EMS 110
- EMS 111
- ART 123 or ART 140 or EMS 266

*It is very important that Electronic Media Certificate (H036) students take courses in correct rotation. Therefore if classes are filled, please contact Justin West (413-552-2525) or Jay Ducharme (413-552-2508) to allow students to enroll.

ELECTRONIC MEDIA OPTION – H035

A.A. in Arts and Science

CONTACT

Justin West, (413) 552-2525, jwest@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Mathematics (D)			3-4		
PROGRAM REQUIREMENTS			25		
Basic Design I or Basic Still Photography or Introduction to Designing for the Web (Spring)	ART 123 ART 140 ART 266 / EMS 266	35mm SLR camera required ART 259 or EMS 111 or EMS 118	3		
Public Speaking or Introduction to Communication	COM 150 COM 121		3		
Introduction to Visual Media	EMS 105		3		
Fundamentals of Video	EMS 110	Video camera required	3		
Introduction to Electronic Media	EMS 111		3		
Topics in Electronic Media or any other 3-credit Electronic Media course	EMS 112 EMS xxx		3		
Electronic Media Seminar	EMS 201	EMS 110, 111, or 112	3		
Electronic Media Portfolio	EMS 204	Permission of instructor	4		
Total Credits			60-61		

PROGRAM OVERVIEW

For those interested in gaining skills in video, multimedia design, digital imaging, digital sound, animation and computer applications for media.

Students will develop a portfolio of their work while gaining skills that will help them in further study or to pursue a career in:

- Multimedia Design
- Graphic Design
- Video
- Public Relations
- Digital Imaging
- Broadcast Media
- Digital Audio Production
- Animation
- Journalism
- Web Design
- Communication
- Interactive Game Design
- Theater
- Education
- Photography
- Film

NOTES

*Please note that many EMS courses formerly carried the COM prefix.

*After the first semester advisors are requested to contact Electronic Media faculty about program requirements.

*Students in the Electronic Media Program are strongly encouraged to meet with an Electronic Media faculty member as soon as possible after beginning the program.

* Appropriate courses for first-semester students: ART 123, 140, COM 121, 150, EMS 105, 110, 111 or 112

*For more information about the Electronic Media Program see www.hcc-cmta.org

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges and universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

ELEMENTARY EDUCATION OPTION – M029

A.A. in Arts and Sciences

CONTACT

April Graziano, (413) 552-2016, agraziano@hcc.edu

PROGRAM OVERVIEW

For transfer students interested in receiving a teaching license for Grades 1 through 6 from the Massachusetts Department of Elementary & Secondary Education.

Requirements may change due to teacher education guidelines and newly implemented articulation agreements with the State Colleges and University.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research ¹	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature ¹	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
Social Science (B)			3		
Humanities (C)			3		
Humanities (C)			3		
Humanities (C)			3		
Laboratory Science ² (D)			4		
Laboratory Science ² (D)			4		
Math ³ (D)			3-4		

NOTES

Students must achieve a minimum grade of “C” in all EDU prefix courses in order to graduate from these programs and options.

* Only six non-Arts and Science credits may be taken towards an A.A. degree. Only 2 EDU courses will be counted toward program electives.

¹ Overall minimum GPA 2.7 for both ENG courses is a minimum requirement for transfer to Westfield State University.

² Students who are considering transfer to WSU should take BIO 101 and should consider ESC 110, 120, or ENV 120.

³ Students considering transferring to WSU should take MTH 125.

****Criminal Offense Record Act (CORI), and Sex Offender Registry Information (SORI)****

Students enrolled in EDU 101, EDU 104, EDU 208, and EDU 213 will be subject to a CORI/SORI check and review pursuant to the Criminal Record Information Act, Massachusetts General Laws, Chapter 6, Section 172-178, and Massachusetts General Laws, Chapter 18a, Section 1, et seq., and regulations promulgated pursuant to such statutes. Applicants with a court record/past conviction may be unable to participate in the Education Program. The College policy can be found in the Student Handbook.

Depending on the course selection, 80% of this program can be completed online.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

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Read the catalog online at www.hcc.edu/catalog

ELEMENTARY EDUCATION OPTION – M029 *continued*

A.A. in Arts and Sciences

CONTACT

April Graziano, (413) 552-2016, agraziano@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES <i>(*Only 6 credits or two non-Arts & Science courses may be taken as general electives in this program)</i>			26		
Cultural Anthropology	ANT 101		3		
Introduction to General Anthropology	ANT 110		3		
Survey of North American Indians	ANT 120		3		
ART Elective (110, 123, or 131)			3		
Education in America*	EDU 100		3		
Child Development and Behavior ¹ *	EDU 104	Eligibility for ENG 101	3		
Children with Disabilities in the Educational Setting*	EDU 208	EDU 104 with a grade of C or better and ENG 101 eligibility	3		
Computer Technology in Education (PreK-6)*	EDU 268	EDU 104 with a grade of C or better and ENG 101 eligibility (sophomore status recommended)	3		
English Elective (200 Level)			3		
Introduction to Geography	GEO 110		3		
American National Government	POL 110		3		
State and Local Government	POL 120		3		
History of Western Civilization I	HIS 101		3		
History of Western Civilization II	HIS 102		3		
History of the United States I	HIS 111		3		
History of the United States II	HIS 112		3		
Public Speaking	COM 150		3		
<i>Students are advised to take two semesters of the language chosen.</i>					
Language Elective (200 Level)			3		
Language Elective (200 Level)			3		
MTH Elective (D)			3-4		
MUS Elective (100 or 110)			3		
Total Credits			60-62		

ENGINEERING OPTION – N079

A.S. in Engineering Studies

CONTACT

Ileana Vasu, 413-552-2438; ivasu@hcc.edu

PROGRAM OVERVIEW

Provides the first two years of a traditional engineering program, in which the student chooses a particular engineering field: Mechanical/Civil/Industrial, Electrical, or Computer Systems.

Upon graduating from this program, students will demonstrate:

- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.

- An ability to function on multidisciplinary teams.
- An ability to identify, formulate, and solve problems.
- An ability to communicate effectively.
- The education necessary to understand the impact of engineering in a global, economic, environmental, and societal context.
- An ability to engage in life-long learning.
- A knowledge of contemporary issues.

All students are encouraged to check with their transfer institution as to what their requirements are for their particular area of interest so they do not have to take more courses than are needed.

We advise that students start their mathematics courses as soon as they enter the program.

The majority of our students transfer to UMass or WNEC. For students transferring to UMass Amherst the minimum GPA is 2.7.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science Elective (B) ³			3		
Social Science Elective (B)			3		
Physics for Engineers and Science Majors I (D)	PHS 111	MTH 113 previously or concurrently	4		
Physics for Engineers and Science Majors II (D)	PHS 112	MTH 114 previously or concurrently, and PHS 111	4		
PROGRAM REQUIREMENTS			30-31		
Principles of Chemistry I or Inorganic Chemistry I	CHM 113 CHM 121	High School Algebra I or equivalent. High School Chemistry recommended.	4		
Principles of Chemistry II ¹ or Inorganic Chemistry II ¹ or Any 4-credit BIO course	CHM 114 CHM 124	CHM 113 or equivalent. High School Algebra I or equivalent recommended. CHM 113 or CHM 121	4		
Intro to Digital Electronic Circuits w/Verilog (Fall) ² or Intro to Engineering with Computer Applications(Fall) ²	EGR 109 EGR 117	MTH 104 or adequate score on the Mathematics Placement Examination MTH 104 or adequate score on the Mathematics Placement Examination	3-4		
Mechanics (Statistics) (Spring)	EGR 221	MTH 114 previously or concurrently, and PHS 111	3		
System Analysis (Circuit Analysis I) (Fall)	EGR 223	MTH 114 previously or concurrently, and PHS 111	4		
Calculus I	MTH 113	MTH 108 or adequate score on the Mathematics Placement Examination	4		
Calculus II	MTH 114	MTH 113	4		
Calculus III	MTH 213	MTH 114	4		

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Read the catalog online at www.hcc.edu/catalog

ENGINEERING OPTION – N079 *continued*

A.S. in Engineering Studies

CONTACT

Ileana Vasu, 413-552-2438; ivasu@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
AND all of the courses in any one of the following three groups:					
Mechanical, Civil or Industrial Engineering Requirements					
Differential Equations(Spring)	MTH 214	MTH 213 previously or concurrently	3		
Mechanics II (Strength of Materials) (Fall)	EGR 222	EGR 221	3		
Thermodynamics (Spring)	EGR 250	MTH 114 previously or concurrently, and PHS 111	3		
Electrical Engineering or Computer Systems Requirements					
Linear Algebra (Fall)	MTH 205	MTH 112 or MTH 114, previously or concurrently	3		
Differential Equations (Electrical Only) (Spring) ³	MTH 214	MTH 212 or MTH 213 previously or concurrently	3		
Discrete Mathematical Structures (Spring)	MTH 230	MTH 113	3		
Introduction to Engineering with JAVA (Spring)	EGR 118	MTH 104 or adequate score on the Mathematics Placement Examination	4		
System Analysis (Circuit Analysis II) (Spring)	EGR 224	EGR 223	4		
GENERAL ENGINEERING TRANSFER <i>(Sufficient to complete 60 credit graduation requirement)</i>			0-1		
Chemistry Course (s) ⁴			4-12		
Engineering Course (s) ⁵			4-12		
Mathematics Course (s) ⁶			3-12		
Biology: Any 100 or higher Biology Course (s)			4-12		
Total Credits			60-71		

NOTES

¹ Students intending to transfer to UMass. in Mechanical, Industrial, Electrical or Computer Engineering should take one course in Chemistry and one in Biology. Students interested Civil Engineering and wanting to transfer to UMass should take 2 semesters of Chemistry and one of Biology.

² Students intending to transfer to UMASS, Amherst, should take EGR 109; Students transferring to WNE in Mechanical, Civil, and Industrial should take EGR 117.

³ Students are strongly suggested to select 1 course that meets diversity requirements at transfer institution. See transfer counselor for list.

⁴ Students may select from Chemistry courses: CHM 113, 114, 121, 124, 221, 222

⁵ Students may select from Engineering courses: EGR 109, 110, 111, 117, 118, 205, 221, 222, 223, 224, 250.

⁶ Students may select from Mathematics courses: MTH 205, 214, 230, 245.

ENGINEERING SCIENCE OPTION –N082

A.S. in Engineering Studies

CONTACT

Ileana Vasu, 413-552-2438; ivasu@hcc.edu

PROGRAM OVERVIEW

This program offers an alternative Engineering option to those students who are interested in Engineering, not committed to one of the traditional Engineering fields.

Upon graduating from this program, students will demonstrate:

- An ability to apply knowledge of mathematics, science, and engineering
- An ability to design and conduct experiments, as well as to analyze and interpret data
- An ability to function on multidisciplinary teams
- An ability to identify, formulate, and solve problems
- An ability to communicate effectively

- The education necessary to understand the impact of engineering in a global, economic, environmental, and societal context
- An ability to engage in life-long learning
- A knowledge of contemporary issues

Students interested in transferring to UMass / WNEC are suggested to enroll in Engineering Option N079.

All students are encouraged to check with their transfer institution as to what their requirements are for their particular area of interest so they do not have to take more courses than are needed.

We advise that students start their mathematics courses as soon as they enter the program.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Physics for Engineers and Science Majors I (D)	PHS 111	MTH 113, previously or concurrently	4		
Physics for Engineers and Science Majors II (D)	PHS 112	MTH 114 previously or concurrently, and PHS 111	4		
PROGRAM REQUIREMENTS			15-16		
Intro to Engineering with Computer Applications <u>or</u> Intro to Engineering with JAVA	EGR 117 <u>or</u> EGR 118	MTH 104 or adequate score on the Mathematics Placement Examination MTH 104 or adequate score on the Mathematics Placement Examination	3-4		
Calculus I	MTH 113	MTH 108 or adequate score on the Mathematics Placement Examination	4		
Calculus II	MTH 114	MTH 113	4		
Calculus III	MTH 213	MTH 114	4		

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ENGINEERING SCIENCE OPTION –N082 *continued*

A.S. in Engineering Studies

CONTACT

Ileana Vasu, 413-552-2438; ivasu@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES <i>(Select 7 from the following courses)</i>			21-28		
Physics for Engineering and Science Majors III (Spring)	PHS 201	PHS 112 Co-requisite: MTH 213 previously or concurrently	3		
Chemistry Course (s) ¹			4-16		
Engineering Course (s) ²			3-28		
Mathematics Course (s) ³			3-12		
Biology: Any 100 or higher Biology Course (s)			4-28		
Environmental Science: Any Environmental Science Course			4-28		
GENERAL ELECTIVES <i>(Sufficient to complete 60 credit graduation requirement)</i>			0-4		
			0-4		
Total Credits			60-64		

NOTES

¹ Students may select from Chemistry courses: CHM 113, 114, 121, 124, 221, 222

² Students may select from Engineering courses: EGR 109, 110, 111, 117, 118, 205, 221, 222, 223, 224, 250.

³ Students may select from Mathematics courses: MTH 205, 214, 230, 245.

ENTREPRENEURSHIP CERTIFICATE – B094

CONTACT

Ellen Majka, (413) 552-2350, emajka@hcc.edu

PROGRAM OVERVIEW

This certificate is designed to provide students with an understanding of what is required to start their own business, and help business owners better manage their existing business. Upon graduating from this certificate

program, students will be able to identify entrepreneurship opportunities, generate ideas, and research the market.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			24		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Introduction to Business	BUS 101		3		
Professional Etiquette	BUS 112		1		
Money Management	BUS 114	Eligibility for MTH 085	1		
Computer Applications or Spreadsheets	BUS 115 BUS 215		3		
Principles of Management or Human Resource Management	MGT 230 MGT 231		3		
Entrepreneurship I	MGT 235		3		
Entrepreneurship II	MGT 236	MGT 235 and MKT 240, or permission of instructor	3		
Principles of Marketing	MKT 240		3		
PROGRAM ELECTIVE			3		
Business Elective ¹			3		
Total Credits			27		

NOTES

¹ Business Elective is to be selected from courses with the prefix: ACC, BUS, CSI, HCA, LAW, MGT, MKT, SEC or SPO.
Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

ENTREPRENEURSHIP OPTION – B033

A.S. in Business Administration

CONTACT

Ellen Majka, 413-552-2350, emajka@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			23		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Statistics (D) or Mathematics for Business Decisions	MTH 142 BUS 170	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination CSI 111, BUS 115 or BUS 215, Eligibility for MTH 095	3		
PROGRAM REQUIREMENTS			40		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Computer Assisted Accounting	ACC 115	ACC 111; Pre or co-requisite: BUS 215	3		
Introduction to Business	BUS 101		3		
Professional Etiquette	BUS 112		1		
Money Management	BUS 114	Eligibility for MTH 085	1		
Computer Applications or Spreadsheets	BUS 115 BUS 215		3		
Introduction to International Business or Principles of Advertising	BUS 245 MKT 226		3		
Business Law	LAW 211		3		
Customer Service and Sales	MKT 227		3		
Principles of Management or Human Resource Management	MGT 230 MGT 231		3		
Entrepreneurship I	MGT 235		3		
Entrepreneurship II	MGT 236	MGT 235 and MKT 240 or permission of instructor	3		
Principles of Marketing	MKT 240		3		
Total Credits			63		

PROGRAM OVERVIEW

The Entrepreneurship Option prepares students to create a business plan as the basis for creating a new business or growing an existing business. This is a two-year terminal degree, and upon graduation, students will be prepared for entry-level jobs in a wide range of businesses. They will be able to interpret accounting data and analyze financial statements, apply marketing concepts, define traditional functions of management and their contribution to strategic planning, and define and execute the principles of retailing, advertising and customer service/sales.

This degree is not intended for transfer, although many of these courses are accepted by 4-year institutions. Students who intend to transfer should look at the following options: BO23 (Mass Transfer to UMass and Westfield State University; GPA 3.0 required) BO34 (General Transfer to most 4-year private colleges), BO37 (Marketing Management General Transfer Option to most 4-year private colleges), BO45 (Paralegal Option for transfer to Elms College and Bay-path College).

NOTES

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

ENVIRONMENTAL SCIENCE FIELD TECHNICIAN OPTION – M036

A.S. in Environmental Science

CONTACT

Jamie Laurin, (413) 552-2523, jlaurin@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
General Chemistry I (D) or Principles of Chemistry I (D) or Inorganic Chemistry I (D) (Fall)	CHM 101 CHM 113 CHM 121		4		
General Chemistry II (D) or Principles of Chemistry II (D) or Inorganic Chemistry II (D) (Spring)	CHM 102 CHM 114 CHM 124	CHM 101, CHM 113, or CHM 121 CHM 113 or equivalent. High School Algebra I or equivalent recommended. CHM 113 or CHM 121	4		
Social Science Elective (B)			3		
State and Local Government (B)	POL 120		3		
PROGRAM REQUIREMENTS			40-41		
Environmental Seminar I (Fall)	ENV 115		1		
Principles of Environmental Science I (Fall)	ENV 120		4		
The Natural History of New England	ENV 124		4		
Mapping with Geographic Information Systems	ENV 125		3		
Environmental Geology	ENV 137		4		
Soil and the Environment	ENV 138		4		
Principles of Environmental Science II (Spring)	ENV 140		4		
Principles of Environmental Site Assessment (Spring)	ENV 230	ENV 120, ENV 140, ENV 137 concurrently	3		
Aquatic Ecology and Pollution (Fall)	ENV 253	One semester of environmental science or biology	4		
Environmental Internship I (Spring) ¹	ENV 270	CHM 102, CHM 114, or CHM 124 previously or concurrently; ENV 140; and permission of program coordinator.	3		
American Environmental History (Spring)	HIS 225	Eligibility for ENG 101	3		
Math Elective ²			3-4		
Total Credits			60-61		

PROGRAM OVERVIEW

This option emphasizes environmental field investigation and includes strong laboratory preparation. Students gain an understanding of environmental science principles as they relate to the movement of contaminants through the ecosystem. Practical experience in the use of specialized sampling and analysis equipment and the methods to assess, control, and prevent environmental contamination are included. Wetland delineation, soil analyses, landfill characterization, and groundwater movement analysis are representative of field activities. Classroom work is supplemented and enriched by an environmental internship field experience. Graduates of this option are ideally suited for positions in government, industry, and consulting, which require field investigation or inspection and some laboratory analysis.

Students must achieve a minimum grade of "C" in all ENV prefix courses in order to graduate from this option. Students receiving less than a "C" grade in these courses are placed on probation until they retake the courses for a grade of "C" or better.

NOTES

¹ An integral part of this program is an internship/cooperative education field experience with an area industry, governmental agency, or environmental consulting firm. These positions, many of which are paid, allow students the opportunity to put theory into practice

and to gain the knowledge and experience necessary to make informed career decisions, to set career goals, and to plan further educational experiences.

² Students should choose one of the following courses with the

advice and consent of an Environmental Science advisor based on results of the Mathematics Placement Examination and individual career goals: MTH 104, MTH 108, or MTH 142.

ENVIRONMENTAL SCIENCE TRANSFER OPTION – M031

A.S. in Environmental Science

CONTACT

Jamie Laurin, (413) 552-2523, jlaurin@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Principles of Chemistry I (D) or Inorganic Chemistry I (D) (Fall)	CHM 113 CHM 121		4		
Principles of Chemistry II (D) or Inorganic Chemistry II (D) (Spring)	CHM 114 CHM 124	CHM 113 or equivalent. High School Algebra I or equivalent recommended. CHM 113 or CHM 121	4		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
Social Science Elective (B)			3		
PROGRAM REQUIREMENTS ¹			45-47		
Environmental Seminar I (Fall)	ENV 115		1		
Principles of Environmental Science I (Fall)	ENV 120		4		
Mapping with Geographic Information Systems	ENV 125		3		
Environmental Geology	ENV 137		4		
Soil and the Environment	ENV 138		4		
Principles of Environmental Science II (Spring)	ENV 140		4		
Principles of Environmental Site Assessment (Spring)	ENV 230	ENV 120, ENV 140, ENV 137 concurrently	3		
Aquatic Ecology and Pollution (Fall)	ENV 253	One semester of environmental science or biology	4		
History of the United States I	HIS 111		3		
American Environmental History (Spring)	HIS 225	Eligibility for ENG 101	3		
Humanities Elective (C)			3		
Math Elective (D) ²			3-4		
Math Elective (D) ²			3-4		
State and Local Government	POL 120		3		
Total Credits			65-67		

PROGRAM OVERVIEW

The Environmental Science and Technology Transfer Option (MO31) is focused on providing a strong foundation in environmental science and equipping the student for an efficient transfer to a 4-year institution by fulfilling the Massachusetts statewide transfer policy known as MassTransfer. Graduates of the program are trained in a wide spectrum of sophisticated technical procedures used in the laboratory and the field. They are exposed to a broad knowledge base in air quality, surface water and groundwater quality, hazardous waste technologies and computer applications like geographic information systems (GIS). As a result, such individuals are highly organized and have strong comprehension and communication skills. Through this expansive knowledge base, graduates are astute problem solvers which are an essential element in the assessment and protection of the environment.

Environmental Economics, ECN 120 (B) and Environmental Ethics, PHI 140 (C) are recommended to fulfill the social science and humanities electives, respectively.

NOTES

¹ Students must achieve a minimum grade of "C" in all ENV prefix courses in order to graduate from this degree option. Course may be repeated to obtain a grade of "C" or better

² Student planning to transfer to the **University of Massachusetts**, Amherst should either complete the mathematics sequence MTH 113, MTH 114 or fulfill the prerequisites for MTH 113, MTH 114 prior to transfer. Students planning to transfer to **Westfield State University** it is recommended to take MTH

142, Introduction to Statistics, along with another 100-level mathematics course.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

FIREFIGHTER FITNESS TRAINER CERTIFICATE – M106

CONTACT

Patti Mantia, Ed.D, (413) 552-2449, pmantia@hcc.edu

PROGRAM OVERVIEW

The Firefighter Fitness Trainer Certificate is designed to prepare the student to assume the role of fitness instructor within the firefighting community. Upon completion of this program, the student will be able to:

- Define the roles and responsibilities of the firefighter fitness counselor
- Identify the components of fitness and relate components to wellness
- Identify the physical demands and training needs specific to firefighting
- Identify how wellness and physical fitness translate to firefighter safety and decreased medical expenses
- Describe and discuss human movement from physiological and biomechanical perspectives
- Define ACSM (American College of Sports Medicine) guidelines for developing aerobic and muscular training programs and develop an appropriate program for firefighters based on the ACSM guidelines
- Describe and administer fitness assessments for each of the components of fitness and relate findings to fitness program design
- Discuss exercise programming considerations for populations with medical concerns and explain basic emergency medical care
- Define and demonstrate leadership competencies such as effective counseling skills and motivational techniques

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			11		
Standard First Aid and Personal Safety/CPR <u>or</u> Sports First Aid	HFN 103 HFN 104	Students can not receive credit for both HFN 103 and HFN 104	1		
Tools for Resistance Training	HFN 129		1		
Firefighter Fitness Trainer	HFN 184		3		
Professional Fitness Seminar/Internship ¹	HFN 190	with permission of instructor	3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
PROGRAM ELECTIVES <i>(Select 1 or 2 from the following courses)</i>			2-3		
Physical Conditioning I	HFN 180		1		
Physical Conditioning II	HFN 181		1		
Physical Conditioning III	HFN 182		1		
Nutrition Throughout the Lifecycle	NTR 201	NTR 101	3		
Total Credits			13-14		

NOTES

¹This course should be taken at the end of the program.

FOODSERVICE MANAGEMENT OPTION – B052

A. S. in Hospitality Management

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

PROGRAM OVERVIEW

The Foodservice Management Program prepare students for culinary arts and entry-level management positions in the diverse field of foodservice including restaurants, clubs, institutions and other managed services.

Upon graduating from this program, students will be able to use a hands-on approach to identify, define and appropriately handle a vase variety of food product and equipment used in the commercial kitchen, dining room and bakeshop. Students will understand current industry standards as well as legal and ethical issues involved in the safe handling and service of food and beverages. Students will undertake a teamwork-based business approach to identify, define, respond to and evaluate problems and resolutions in various foodservice industry situations, as well as to further an understanding

of professional development in the industry. Students will be able to use generic business skills as well as functionally-based hospitality industry skills to define relationships between situations and understand professional terminology and concepts within the industry. Students will use mathematics and a business-oriented approach to identify, define, respond to and evaluate problems in reaching resolutions to global hospitality industry problems; understand the current ethical, social, and nutritional issues in the hospitality industry; and communicate effectively with colleagues and customers using a variety of information resources. Students will posses the tools to work effectively in an organization and as a member of a team, and have first-hand industry experience.

NOTES

Students must pass the NRAEF ServSafe exam in order to complete the requirements for attaining the certificate.

CUL 111 may be waived in lieu of an earned and valid ServSafe Certificate.

Students who intend to transfer should look at the following option: B051 Hospitality Management Transfer. The hospitality transfer option is a MassTransfer degree intended for UMass (2.7 GPA required) and other state

schools, and is also the best option for transferability to other four-year programs.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

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FOODSERVICE MANAGEMENT OPTION – B052 *continued*

A. S. in Hospitality Management

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology or Introduction to Sociology	PSY 110 SOC 110	Eligibility for ENG 101	3		
Social Science Elective (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
PROGRAM REQUIREMENTS			47		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Computer Applications	BUS 115		3		
Culinary Foundations I	CUL 100	Eligibility for MTH 085; ENG 085 with a grade of C- or better or adequate score on the reading comprehension portion of the placement examination. Pre or co-requisite: CUL 115	3		
Culinary Foundations II	CUL 101	A grade of C- or better in CUL 100	3		
Professional Standards for the Foodservice Industry	CUL 104		1		
Special Events Skills (Fall)	CUL 105	Prerequisite or co-requisite: CUL 100	2		
Baking Theory and Practice	CUL 110	Eligibility for MTH 085, ENG 085 with a grade of C- or better, or adequate score on the reading comprehension portion of the placement examination.	3		
Safety and Sanitation	CUL 111		2		
Culinary Math	CUL 115	Eligibility for MTH 085 or adequate score on mathematics placement examination	1		
Nutrition for Foodservice Professionals (Spring) or Introduction to Nutrition	CUL 203 NTR 101	CUL 100 Eligibility for ENG 101	3		
Professional Standards for the Foodservice Industry II (Spring)	CUL 204	A grade of C- or better in CUL 104	1		
Foodservice Cost Control (Spring)	CUL 215	CUL 101 and CUL 115 with a grade of C- or better	3		
A la Carte Cooking and Service (Spring)	CUL 230	Grade of C- or better in CUL 101 and passing score on NRAEF ServSafe Certification Exam	6		
Banquet Cooking and Service (Spring)	CUL 250	Grade of C- or better in HCA 130 and a passing score on the NRAEF ServSafe Certification Exam	3		
Introduction to Hospitality Industry	HCA 101		3		
Cooperative Education in Hospitality Management I	HCA 280	24 credits, and HCA 101	3		
Principles of Management	MGT 230		3		
Total Credits			67		

FORENSIC SCIENCE CERTIFICATE – X073

CONTACT

Beth Butin, (413) 552-2305, ebutin@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			11		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
Introduction to Cell Functions (D) or General Biology for Non-Majors: The Processes of Life (D)	BIO 100 BIO 107	Note: Credit cannot be received for more than one of these - BIO 100, 103 Eligibility for ENG 101	4		
Introduction to Forensic Science (D)	FRS 101		4		
PROGRAM ELECTIVES ¹ <i>(Select 3 from the following)</i>			9-10		
General Biology II: Diversity of Life on Earth	BIO 108	BIO 103 or BIO 107	4		
Computer Applications or Computer Concepts	BUS 115 CSI 101	Eligibility for ENG 101	3		
General Chemistry I and II	CHM 101 CHM 102		4		
Introduction to Criminal Justice	CRJ 100	Eligibility for ENG 095	3		
Criminal Law and Procedure	CRJ 112	CRJ 100	3		
Criminal Investigation and Crime Analysis (Fall)	CRJ 205	CRJ 100 and CRJ 112	3		
Forensic DNA Analysis	FRS 201	FRS 101 or BIO 243 and CHM 101 or 113 or 121	4		
Total Credits			20-21		

NOTES

¹Students strongly encouraged to select at least one CRJ designated course
Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information." Under Notes

PROGRAM OVERVIEW

The Forensic Science Certificate is designed for those already in law enforcement interested in learning new technology and skills or for incoming students who are not ready to enter a degree program. A Forensic Science Certificate will better prepare existing law enforcement personnel for advancement in the field and hopeful law enforcement personnel for entry into a highly competitive field.

Upon completion of this degree students will be able to:

- Practice good laboratory techniques ensuring safety, quality control, and quality assurance
- Create well-organized, informed, and effective written reports and scientific articles
- Supply informed, concise, and unbiased expert witness testimony
- Properly collect, preserve, and process evidence using various scientific techniques

The Forensic Science Certificate will be an in-house certificate that is specialized and not intended for transfer. Students selecting this major should be advised that employers in Forensic Science related occupational fields conduct both CORI (Criminal Offense Record Act) and SORI (Sex Offender Registry Informational) checks pursuant to Chapter 6, Sections 172-178 of the Massachusetts General Laws related regulations.

FORENSIC SCIENCE – X074

A.S. in Arts and Science

CONTACT

Beth Butin, (413) 552-2305, ebutin@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			21		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Introduction to Cell Functions (D) or General Biology for Non-Majors: The Processes of Life (D)	BIO 100 BIO 107	Note: Credit cannot be received for more than one of these - BIO 100, 103 Eligibility for ENG 101	4		
Principles of Chemistry I (D) or Inorganic Chemistry 1 (D)	CHM 113 CHM 121		4		
College Algebra (D)	MTH 104	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	4		
PROGRAM REQUIREMENTS			39		
Principles of Chemistry II or Inorganic Chemistry II	CHM 114 CHM 124	CHM 113 or equivalent. High School Algebra I or equivalent recommended.	4		
Introduction to Criminal Justice	CRJ 100	Eligibility for ENG 095	3		
Criminal Law and Procedure	CRJ 112	CRJ 100	3		
Criminal Investigation and Crime Analysis or Criminal Evidence	CRJ 205 CRJ 102	CRJ 100 and CRJ 112	3		
Introduction to Forensic Science	FRS 101		4		
Forensic DNA Analysis	FRS 201	FRS 101 or BIO 243 and CHM 101 or 113 or 121	4		
Statistics	MTH 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Total credits			60		

PROGRAM OVERVIEW

The Forensic Science degree is for those who are interested in forensic science and plan to either find employment as a technician in the field or transfer to a 4-year school.

Upon completion of this degree students will be able to:

- Practice good laboratory techniques ensuring safety, quality control, and quality assurance
- Create well-organized, informed, and effective written reports and scientific articles
- Supply informed, concise, and unbiased expert witness testimony
- Properly collect, preserve, and process evidence using various scientific techniques
- Explain the methods and procedures applied to identify and characterize DNA from biological samples

Careers in the field can include crime scene processing, criminalistics, forensic biology, and forensic chemistry. Students selecting this major should be advised that employers in Forensic Science related occupational fields conduct both CORI (Criminal Offense Record Act) and SORI (Sex Offender Registry Informational) checks pursuant to Chapter 6, Sections 172-178 of the Massachusetts General Laws related regulations.

NOTES

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree

FOUNDATIONS OF HEALTH – M068

A.S. in Arts and Science

CONTACT

Rebecca Lewis (413) 552-2426, rlewis@hcc.edu

PROGRAM OVERVIEW

The Foundations of Health degree is designed for students interested in a health-related career. Students begin by taking Introduction to Health Careers (HTH 101), along with General Education requirements. Students will work closely with their advisor to place into appropriate courses, guided by their strengths and personal goals.

The courses will be used as a springboard into a variety of health careers. These include immediate certifications as a Certified Nurse's Aide (CNA); certificate programs such as Medical Assistant; and degree programs such as Nutrition (A.S.) or Human Services (A.S.). Upon graduating from this program, students will possess a foundational skill set for entering a health career including the ability to: effectively utilize medical terminology both in English and in Spanish; apply basic clinical competencies in a health care setting gained through completion of the Certified Nurse's Aide license in HTH 210- Field Experience in addition to leadership strategies and critical thinking; understand the intersection of psychological and sociological components of human development and aging as they relate to healthcare practice; and possess an understanding of the physiological makeup of the human body (nutritionally and

biologically). Upon completion of the Foundations of Health Degree students can also apply to Elms College for a 20 month Bachelor Degree in Health Services Administration.

The following are some positions for which a graduate with this degree may be qualified:

- Activities Assistant
- Bilingual Intake Worker
- Certified Nurses Aide (C.N.A.)
- Community Health Worker
- Healthcare Coordinator
- Patient Care Tech
- Care Coordinator/Patient Navigator
- Psychiatric Aide

The co-requisites for Selective Programs in health are embedded in this major. Selective Programs include Associate Degree in Nursing, Certificate in Practical Nursing, Radiologic Technology (A.S.) and Veterinary Technology (A.S.). Each of these programs requires a separate application process along with attendance at an information session. See the website for more details.

Foundations of Health students enrolled in the HTH 210 Field Experience or applying for Selective Programs are required to complete a CORI/SORI background check. A positive finding may prevent students from successfully completing the HTH 210 Field Experience course, applying for Selective Programs, or graduating with a Foundations of Health Degree due to clinical site requirements. The College policy can be found in the Student Handbook. Inability to attend clinical orientation for the HTH 210 course and meet requirements for clinical placement may result in failure of HTH 210.

Drug Testing

Students are required to complete drug testing at the student's own expense upon enrollment in the HTH 210- Field Experience course. The Work Connection at Holyoke Medical Center has been selected as the Division of Health and Natural Science's exclusive laboratory for student drug testing. A positive finding may prevent students from successfully completing the HTH 210 Field Experience course, applying for Selective Programs, or graduating with a Foundations of Health Degree due to clinical site requirements.

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FOUNDATIONS OF HEALTH – M068

A.S. in Arts and Science

CONTACT

Rebecca Lewis (413) 552-2426, rlewis@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			27-28		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
General Biology I: Introduction to Cell Functions (D)	BIO 107	Eligibility for ENG 101	4		
Human Anatomy and Physiology I (D)	BIO 217	A "C" grade or better in BIO 100, 103, or 107 or a passing score on the challenge exam.	4		
Human Anatomy and Physiology II (D)	BIO 218	BIO 217	4		
College Algebra (D) or Statistics (D)	MTH 104 MTH 142	Mathematics Placement Examination MTH 095 with a grade of C- or better or adequate score on the	3-4		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
PROGRAM REQUIREMENTS			35		
Computer Applications	BUS 115		3		
Introduction to the Study of Aging	GRT 110		3		
Introduction to Health Careers	HTH 101		3		
Medical Terminology	HTH 114		3		
Introduction to Drug Therapy for Health Majors	HTH 130		2		
Field Experience ¹	HTH 210	Prerequisite or co-requisite: GRT 110 Additional Course Fees: \$93.00 CNA Licensure Exam and \$61.00 Drug Testing. Non-Course Fees: Cori/Sori. (All fees subject to change.)	6		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
Human Development	PSY 216	PSY 110	3		
Race and Ethnicity or Social Problems	SOC 220 SOC 214	SOC 110 SOC 110	3		
Spanish for Health Related Careers I ²	SPA 111	One year of high school Spanish or one semester of college Spanish; or permission of instructor.	3		
Spanish for Health Related Careers II	SPA 112	SPA 111	3		
PROGRAM ELECTIVES			3		
Business / Biology Elective ³			3-4		
Total Credits			65-67		

NOTES

¹ Students with healthcare experience may waive this course with department approval. Students receiving approval to waive this course may substitute it with 6 from the following prefixes for a total of 6 credits: COM, PHI, ANT 101 or 114, MKT or MGT (200 level), ENG (200 level), SOC (200 level), or HTH 280/281.

² If a student has not had Spanish in more than four years, they may want to take SPA 101 as a re-fresher. Native speakers are exempt from SPA 111, but they are required to complete SPA 112.

³ Select from prefixes MGT, MKT, BUS, or ACC or Microbiology (Bio 229).

*Students contemplating transfer to American International College's Bachelors of Nursing (BSN) or "Elms Accelerated Second Degree in Nursing Program" should take a Chemistry course.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

GENERAL INTEGRATED STUDIES ELEMENTARY EDUCATION OPTION – C004

Westfield State University – A.S. in Liberal Studies

CONTACT

April Graziano, (413) 552-2016, agraziano@hcc.edu

PROGRAM OVERVIEW

This program is designed for students interested in teaching elementary school, Grades 1 through 6. These students will transfer to Westfield State University after receiving their Associate Degree.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			23		
College Composition I: Expository Writing and Research ¹	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature ¹	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
General Biology for Non-Majors: The Processes of Life (D)	BIO 101	Eligibility for ENG 101	4		
Laboratory Science (D) ²			4		
Number Systems (D)	MTH 125	MTH 095 with a grade of D- or better or adequate score on the Mathematics Placement Examination	3		
PROGRAM REQUIREMENTS			25		
Education in America	EDU 100		3		
Child Development and Behavior	EDU 104	Eligibility for ENG 101	3		
Children with Disabilities in the Educational Setting	EDU 208	EDU 104 with a grade of C or better and ENG 101 eligibility	3		
Curriculum in Early Education	EDU 210	EDU 104 with a grade of C or better and ENG 101	4		
Computer Technology in Education (PreK-6)	EDU 268	EDU 104 with a grade of C or better and ENG 101 eligibility (sophomore status recommended)	3		
World Regional Geography	GEO 110		3		
History of World Civilization I (Fall)	HIS 103		3		
History of the United States I	HIS 111		3		
PROGRAM ELECTIVES			6		
<i>(Select one from the following)</i>			3		
Basic Design	ART 123				
Intro to Art History	ART 131	ENG 101, previously or concurrently			
Intro to Theater	THE 100				

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GENERAL INTEGRATED STUDIES ELEMENTARY EDUCATION OPTION – C004 *continued*

Westfield State University – A.S. in Liberal Studies

CONTACT

April Graziano, (413) 552-2016, agraziano@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES <i>(Continued)</i>					
<i>(Select one from the following)</i>					
Music Fundamentals	MUS 100				
Intro to Classical Music	MUS 110				
Intro to World Music Music	MUS 106				
Intro to Jazz	MUS 140				
Intro to Theater	THE 100				
ELECTIVES <i>(Select 9 credits from ONE AREA listed below)</i>			9		
			3-4		
			3-4		
			3-4		
Art, 231, 232, 241, 242, 261, 262 Biology, 108, 110, 120, 229, 230, 243 Chemistry, all courses Earth Science, all courses English, 211, 212, 224 Environmental Science & Technology, 120, 137, 140, 253 French, all 200-level courses, plus 102 History, all 200 level courses		Math, 108, 113, 114, 142, 205, 213, 214, 230 Music, all 200-level courses, except 231 and 232 Philosophy, all courses except 103 and 230 Physics, all PHS courses except 201 Psychology, 210, 217, 218, 220, 222, 224, 260 Spanish, all 200-level courses, plus 102 Theater, 100, 124, 125			
Total Credits			63		

NOTES

Students must achieve a minimum grade of "C" in all EDU prefix courses in order to graduate from these programs and options.

¹ **Overall minimum GPA 2.7 for both ENG course requirements for WSU**

² Select one laboratory Science from the following: AST 110, CHM 101, CHM 113, CHM 121, ESC 110, ESC 120, ENV 120, ENV137, PSC 140, PHS 101; Recommended: ESC 110, 120 or ENV 120.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

GENERAL INTEGRATED STUDIES OPTION – C001

A.S. in Liberal Studies

CONTACT

Idelia Smith, (413) 552-2228, ismith@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			23-24		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Mathematics Elective (D)			3-4		
PROGRAM REQUIREMENTS <i>(Selected and agreed by contract)</i>			36-37		
Total Credits			60		

PROGRAM OVERVIEW

Designed for students whose educational interests are not met by other degree options. Students and their academic advisor plan a personally tailored course of study that is established by individual contract. General education requirements are selected based on the student's needs and establishing the prerequisites for the courses selected in the student's program contract.

NOTES

Depending on the course selection 100% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

GRAPHIC DESIGN CERTIFICATE – H034

CONTACT

Beverly Wodicka, (413) 552-2572, bwodicka@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	Co-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS ¹				21		
Basic Design I	ART 123			3		
Commercial Art and Design I	ART 256		ART 121 or ART 123	3		
Commercial Art and Design II (Spring)	ART 257	ART 256		3		
Graphic Design Production((Fall)	ART 258	ART 256, ART 259		3		
Computers for Graphic Designers I (Fall)	ART 259	ART 256		3		
Computers for Graphic Designers II (Spring)	ART 260	ART 259		3		
Computers for Graphic Designers III (Spring)	ART 265	ART 259		3		
Total Credits				21		

NOTES

¹These electives are not required, but are highly recommended:

HUM	280	Cooperative Education I
ART	266	Introduction to Designing for the Web

PROGRAM OVERVIEW

Successful completion of the Graphics Certificate will include the creation of a portfolio which is required for transfer to upper level studies leading to a BA or BFA degree and for entry level graphics positions. The portfolio along with the experience in completing the courses, prepares the student for beginning a career in graphic design printing and publishing.

The portfolio will include samples of graphic design basics:

- logo development
- layout
- advertising design
- black & white graphics
- color graphics
- traditional layout
- computer layout
- computer imaging
- computer illustration

GRAPHICS OPTION – H042

A.S. in Visual Art

CONTACT

Beverly Wodicka, (413) 552-2572, bwodicka@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CO-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS				26-27		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.		3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher		3		
Social Sciences (B)				3		
Social Sciences (B)				3		
Social Sciences (B)				3		
Laboratory Science (D)				4		
Laboratory Science (D)				4		
Math Elective (D)				3-4		
PROGRAM REQUIREMENTS				18		
Basic Drawing	ART 121			3		
Basic Design I	ART 123			3		
Basic Design II	ART 124	ART 123		3		
Introduction to Art History I	ART 131	ENG 101, previously or concurrently		3		
Introduction to Art History II	ART 132	ENG 101, previously or concurrently		3		
Commercial Art and Design I	ART 256		ART 121 or ART 123	3		
SELECT 4 FROM THE FOLLOWING				12		
Commercial Art and Design II (Spring)	ART 257	ART 256		3		
Graphic Design Production (Fall)	ART 258	ART 259, previously or concurrently	ART 259	3		
Computers for Graphics I (Fall)	ART 259	ART 256		3		
Computers for Graphics II (Spring)	ART 260	ART 259		3		
Computers for Graphics III (Spring)	ART 265	ART 259		3		
SUGGESTED ELECTIVES				6		
Humanities Elective				3		
Visual Communication Elective ¹				3		
				3		
Total Credits				62-63		

PROGRAM OVERVIEW

Successful completion of the Graphics Option will include the creation of a portfolio which is required for transfer to upper level studies leading to a BA or BFA degree. The portfolio along with the experience in completing the courses, prepares the student for beginning a career in graphic design printing and publishing.

The portfolio will include samples of graphic design basics:

- logo development
- layout
- advertising design
- black & white graphics
- color graphics
- traditional layout
- computer layout
- computer imaging
- computer illustration

NOTES

¹ Select from the following electives: EMS 105, EMS 111, EMS 112, ART 266/EMS 266.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree

GROUP EXERCISE LEADER CERTIFICATE – M102

CONTACT

Patti Mantia, Ed.D, (413) 552-2449, pmantia@hcc.edu

PROGRAM OVERVIEW

The Group Exercise Leader Certificate Program is designed for the individual who is interested in working as a group exercise instructor in a variety of health and fitness settings. Upon completion of this program, the student will be able to:

- Define and discuss the roles and responsibilities of the group exercise leader
- Identify and discuss the components of fitness and explain how they relate to wellness
- Describe and discuss human movement from physiological and biomechanical perspectives
- Define and discuss ACSM (American College of Sports Medicine) guidelines for developing aerobic, muscular and flexibility training programs
- Identify and demonstrate effective teaching skills including use of music, choreography development, cueing and class management
- Discuss exercise programming considerations for populations with medical concerns and explain basic emergency medical care.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			7		
Standard First Aid and Personal Safety/CPR <u>or</u> Sports First Aid	HFN 103 HFN 104	Students can not receive credit for both HFN 103 and HFN 104	1		
Learning to be a Group Exercise Leader	HFN 134		3		
Professional Fitness Seminar/Internship ¹	HFN 190	with permission of instructor	3		
PROGRAM ELECTIVES <i>(Select 2 from the following courses)</i>			2-4		
PACE (People with Arthritis Can Exercise)	HFN 108	HFN 134 or HFN 183, or HFN 180 and HFN 181 or Industry Certification in Group Exercise or Personal Training or permission of instructor or department chair	1		
Yoga Instructor	HFN 109		3		
Tools for Resistance Training	HFN 129		1		
Beginning Yoga	HFN 145		1		
Physical Conditioning I	HFN 180		1		
Physical Conditioning II	HFN 181		1		
Physical Conditioning III	HFN 182		1		
Total Credits			9-11		

NOTES

¹This course should be taken at the end of the program.

HEALTH AND FITNESS MANAGEMENT CERTIFICATE – M101

CONTACT

Patti Mantia, Ed.D, (413) 552-2449, pmantia@hcc.edu

PROGRAM OVERVIEW

The Health and Fitness Management Certificate Program will prepare the student for a management position in the field of health and fitness. Students will study health and fitness and business management courses in this option.

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

- Define and discuss the roles and responsibilities of the health and fitness facility manager, human resource manager and exercise leader
- Identify effective marketing and sales techniques used in the fitness field
- Discuss financial operations of a fitness facility
- Demonstrate effective communication and interpersonal skills for diverse populations
- Discuss and demonstrate effective techniques for hiring, training and evaluation of facility employees and exercise leaders

- Discuss legal concerns and identify risk management techniques
- Identify and discuss national certification and licensure for the exercise leader
- Discuss the components of fitness and explain how they relate to wellness
- Define, describe and demonstrate human movement patterns
- Describe the physiological responses of the body during physical activity
- Define and discuss ACSM (American College of Sports Medicine) fitness guidelines
- Demonstrate use of equipment used to enhance physical conditioning
- Discuss exercise programming considerations for populations with medical concerns and explain basic emergency medical care.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			27		
Human Biology	BIO 111		4		
Introduction to Business	BUS 101		3		
Business Etiquette	BUS 112		1		
Standard First Aid and Personal Safety/CPR or Sports First Aid	HFN 103 HFN 104	Students can not receive credit for both HFN 103 and HFN 104	1		
Leading Group Exercise or Personal Fitness Trainer or Principles and Practices of Strength Training	HFN 134 HFN 183 HFN 185	HFN 134 or HFN 183 or BIO 217	3		
Professional Fitness Seminar/Internship ¹	HFN 190	HFN 134, HFN 172, or HFN 183	3		
Business Law	LAW 211		3		
Principles of Management or Human Resource Management	MGT 230 MGT 231		3		
Entrepreneurship	MGT 235		3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
PROGRAM ELECTIVES (Select 2 HFN 1-credit courses)			2		
HFN Elective			1		
HFN Elective			1		
Total Credits			29		

NOTES

*Students who are seriously considering pursuing a degree program are encouraged to take BIO 217 Anatomy & Physiology I and 218 Anatomy & Physiology II instead of BIO 111 Human Biology as Anatomy & Physiology are required for any exercise science degree.

¹ HFN 190 should be taken as one of the final classes in this program.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

HEALTH AND FITNESS SPECIALIST CERTIFICATE – M100

CONTACT

Patti Mantia, Ed.D, (413) 552-2449, pmantia@hcc.edu

PROGRAM OVERVIEW

The Health and Fitness Specialist Certification program prepares the student for a variety of employment opportunities within the health and fitness industry. Credits from the certificate program are transferable into the Associate of Science Degree program at HCC or other academic institutions.

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

- Define the roles and responsibilities of the exercise leader
- Identify and discuss the components of fitness and explain how they relate to wellness
- Describe and discuss human movement from physiological and biomechanical perspectives

NOTES

¹HFN290 should be taken as one of the final classes in this program.

- Define and discuss ACSM (American College of Sports Medicine) guidelines for fitness programs
- Discuss exercise programming considerations for populations with medical concerns and explain basic emergency medical care
- Demonstrate proficiency in technical skills related to exercise science and/or nutrition
- Demonstrate proficiency in interpersonal communication skills
- Meet objectives required for successful completion of national certification exams when appropriate.

Students who are seriously considering pursuing a degree program are encouraged to take BIO 217 Anatomy and Physiology I (has pre-requisite of BIO 100) and BIO 218 Anatomy and Physiology II in place of BIO 111 as they will be required for a degree program.

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HEALTH AND FITNESS SPECIALIST CERTIFICATE – M100 *continued*

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			24		
Human Biology	BIO 111		4		
Standard First Aid and Personal Safety/CPR or Sports First Aid	HFN 103 HFN 104	Students can not receive credit for both HFN 103 and HFN 104	1		
Personal Fitness Trainer or Learning to Teach Group Exercise or Principles and Practices of Strength Training	HFN 183 HFN 134 HFN 185	HFN 134 or HFN 183 or BIO 217	3		
Leadership in Recreation, Fitness and Sport	HFN 171		3		
Physiology of Exercise (Spring)	HFN 176	BIO 111 or BIO 217	4		
Biomechanics of Human Movement (Fall)	HFN 177	BIO 100 or BIO 103 BIO 117 or BIO 111 or BIO 217	3		
Professional Fitness Seminar/Internship ¹	HFN 190	with permission of instructor	3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
PROGRAM ELECTIVES <i>(Select 1 from the following courses)</i>			3		
Yoga Fitness Leader	HFN 109		3		
Exercise in Health & Disease	HFN 170		3		
Prevention, Assessment and Care of Sport/Fitness Injuries	HFN 178		3		
Current Issues in Fitness	HFN 179		3		
Principles and Practices of Strength Training	HFN 185	HFN 183 or HFN 134 or BIO 217	3		
Select 2 from the following courses:			2		
Sports Supplementation	HFN 106		1		
PACE (People With Arthritis Can Exercise)	HFN 108	HFN 134 or HFN 183, or HFN 180 and HFN 181 or Industry Certification in Group Exercise or Personal Training or permission of instructor or department chair	1		
Introduction to Wellness/Fitness	HFN 131		1		
Group Exercise: Aerobics, Steps and More	HFN 133		1		
Beginning Yoga	HFN 145		1		
Managing Stress	HFN 150		1		
Martial Arts	HFN 160		1		
Physical Conditioning I	HFN 180		1		
Physical Conditioning II	HFN 181		1		
Physical Conditioning III	HFN 182		1		
Nutrition Throughout the Lifecycle	NTR 201	NTR 101	3		
Total Credits			29		

HEALTH, FITNESS and NUTRITION – M115

A.S. in Health and Fitness

CONTACT

Patti Mantia, Ed.D, (413) 552-2449, pmantia@hcc.edu

PROGRAM OVERVIEW

The Associate of Science Degree in Health, Fitness and Nutrition provides a sound academic foundation for the student who wants to pursue a career in health and fitness and/or transfer to a 4-year program in exercise science. Upon completion of the degree program, students will:

- Define the roles and responsibilities of the exercise leader
- Identify and discuss the components of fitness and explain how they relate to wellness
- Describe and discuss human movement from physiological and biomechanical perspectives
- Define and discuss ACSM (American College of Sports Medicine) guidelines for fitness programs

NOTES

¹This course should be taken at the end of the program.

²Students wishing to select non-HFN elective options should seek approval from the Department Chair.

- Discuss exercise programming considerations for populations with medical concerns and explain basic emergency medical care
- Demonstrate proficiency in technical skills related to exercise science and/or nutrition
- Demonstrate proficiency in interpersonal communication skills
- Meet objectives required for successful completion of national certification exams when appropriate
- Meet minimum criteria for transfer to four-year program and/or gain employment in the field of Health, Fitness, and Nutrition.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

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HEALTH, FITNESS and NUTRITION – M115 *continued*

A.S. in Health and Fitness

CONTACT

Patti Mantia, Ed.D, (413) 552-2449, pmantia@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Anatomy and Physiology I (D)	BIO 217	A "C" grade or better in BIO 100, 103, BIO 107 or a passing score on the challenge exam.	4		
Anatomy and Physiology II (D)	BIO 218	BIO 217	4		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
Social Science Elective (B)			3		
Introduction to Communication (C)	COM 121		3		
Clear Thinking/Sound Reasoning (C) or Ethics (C)	PHI 103 PHI 120		3		
Humanities Elective (C)			3		
Math Elective (D)			3-4		
PROGRAM REQUIREMENTS			19		
Standard First Aid and Personal Safety or Sports First Aid	HFN 103 HFN 104	Students can not receive credit for both HFN 103 and HFN 104	1		
Motor Learning Principles and Practices (Fall)	HFN 120		3		
Introduction to Exercise Science	HFN 172		2		
Physiology of Exercise (Spring)	HFN 176	BIO 217	4		
Biomechanics of Human Movement (Fall)	HFN 177	BIO 100 or BIO 103 or BIO 111 or BIO 217	3		
Professional Fitness Seminar Field Experience ¹	HFN 190	with permission of instructor	3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
PROGRAM ELECTIVES ²			9		
HFN Elective			3		
HFN Elective			3		
HFN Elective			1		
HFN Elective			1		
HFN Elective			1		
Total Credits			63-64		

HEALTHY LIVING COACHING CERTIFICATE – M112

CONTACT

Patti Mantia, Ed.D, (413) 552-2449, pmantia@hcc.edu

PROGRAM OVERVIEW

Upon completion of the Healthy Living Counseling Certificate Program, the student will be able to:

- Identify and describe body systems such as the musculoskeletal system, cardiopulmonary system, endocrine system, nervous system, digestive system and immune system
- List and discuss healthy living strategies for proper nutrition, physical fitness, stress management and disease prevention
- List and describe the dimensions of wellness
- Outline and discuss a sound physical fitness program that includes each of the components of fitness
- Outline and discuss how to develop and follow a healthy diet and maintain a healthy body weight
- Discuss the cost:benefit relationship of five or more sports supplements
- Discuss dietary practices of various cultures and identify positive and negative aspects of each
- Discuss diet trends and identify positive and negative aspects of each
- Explain and demonstrate emergency first aid techniques including CPR and use of the AED
- List and discuss behavior change models as related to healthy living strategies
- List and discuss counseling techniques to enhance client motivation and adherence
- Discuss ethical and legal concerns in counseling for health and wellness.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			19		
Human Biology <u>or</u> Human Anatomy & Physiology I	BIO 111 BIO 217	A "C" grade or better in BIO 100, 103 or BIO 107 or a passing score on the challenge exam.	4		
First Aid <u>or</u> Sports First Aid	HFN 103 HFN 104		1		
Sports Supplements	HFN 106		1		
Healthy Living	HFN 115		3		
Physical Conditioning I	HFN 180		1		
Healthy Wellness Counseling	HFN 188		3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
Diet Theory	NTR 210	HFN 105 (Personal Nutrition) or NTR 101 (Introduction to Nutrition)	3		
PROGRAM ELECTIVES			10		
PSY Elective			3		
SOC Elective			3		
COM Elective			3		
HFN Elective			1		
Total Credits			29		

HOSPITALITY MANAGEMENT-CERTIFICATE – B053

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

PROGRAM OVERVIEW

All coursework in the certificate will be offered both on-campus and online. This area of study enables industry professionals and beginning students to undertake college-level coursework in hospitality management without the constraints of being on campus. Students wishing to earn a degree may continue on in either the A.S. in Hospitality Management transfer or career program.

Students will use generic business skills from marketing, management and accounting as well as functionally-based hospitality industry skills to define relationships between situations and understand professional terminology and concepts within the industry. Students will use a business-oriented approach to identify, define, respond to and evaluate problem resolutions to various hospitality industry situations and problems. Students will understand the current ethical and social issues in the hospitality industry.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			25		
Principles of Accounting	ACC 111	Eligibility for MTH 085	4		
Introduction to the Hospitality Industry	HCA 101		3		
Lodging Operations	HCA 102	HCA 101 with a grade of C- or better.	3		
Food and Beverage Options ¹	HCA 232	HCA 130 or a grade of C- or better in both CUL 101 and CUL 115	3		
Principles of Management	MGT 230		3		
Human Resources Management	MGT 231		3		
Customer Service and Sales	MKT 227		3		
Principles of Marketing	MKT 240		3		
Total Credits			25		

NOTES

¹ Prerequisite waived for certificate students.

Depending on the course selection 100% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

HOSPITALITY MANAGEMENT-CAREER OPTION – B056

A. S. in Hospitality Management

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Social Science Elective (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
PROGRAM REQUIREMENTS			43		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Computer Applications	BUS 115		3		
Business Communications	BUS 220	ENG 101	3		
Safety and Sanitation	CUL 111		2		
Banquet Cooking and Service (Spring)	CUL 250	Grade of C- or better in HCA 130 and a passing score on the NRAEF ServSafe Certification Exam	3		
Introduction to the Hospitality Industry	HCA 101		3		
Lodging Operations	HCA 102	HCA 101 with a grade of C- or better.	3		
Principles of Food Production (Spring)	HCA 130	ENG 085 or satisfactory score on reading comprehension placement exam	4		
Food and Beverage Operations	HCA 232	HCA 130 or a grade of C- or better in both CUL 101 and CUL 115	3		
Cooperative Education in Hospitality Management I	HCA 280	24 credits, and HCA 101-102	3		
Principles of Management	MGT 230		3		
Human Resource Management	MGT 231		3		
Customer Service and Sales	MKT 227		3		
Introduction to Nutrition or Nutrition for Foodservice	NTR 101 CUL 203	Eligibility for ENG 101 CUL 100	3		
Total Credits			63		

PROGRAM OVERVIEW

The Hospitality Management Career Option prepares students for various types of management positions in the hospitality industry. Career opportunities in this fast-growing industry exist in such diverse sectors as travel and tourism, lodging, the restaurant industry, recreation and leisure, gaming entertainment, and conference and meeting planning.

Upon graduating from this program, students will be able to use general business skills as well as functional-based hospitality industry skills to define relationships between situations and understand professional terminology and concepts within the industry. Students will use mathematics and a business-oriented approach to identify, define, respond to and evaluate problem resolutions to global hospitality industry problems; understand the current ethical and social issues in the hospitality industry; and communicate effectively with colleagues and customers using a variety of information resources. Students will possess the tools to work effectively in an organization and as a member of a team and give first-hand industry experience.

NOTES

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

Students who intend to transfer should look at the following option: B051 Hospitality Management Transfer. The hospitality transfer option is a MassTransfer degree intended for UMass (2.7 GPA required) and other state schools, and is also the best option for transferability to other four-year programs.

HOSPITALITY MANAGEMENT-TRANSFER OPTION – B051

A. S. in Hospitality Management

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Social Science Elective (B)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Statistics (D)	MTH 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
PROGRAM REQUIREMENTS			30		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Introduction to the Hospitality Industry	HCA 101		3		
Lodging Operations	HCA 102	HCA 101 with a grade of C- or better.	3		
Principles of Food Production (Spring)	HCA 130	ENG 095 or satisfactory score on reading comprehension placement exam	4		
Food and Beverage Operations	HCA 232	HCA 130 or a grade of C- or better in both CUL 101 and CUL 115	3		
Principles of Management	MGT 230		3		
Applied Calculus	MTH 162	MTH 104 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
PROGRAM ELECTIVES			3		
Hospitality Management Elective ¹			3		
Total Credits			68		

PROGRAM OVERVIEW

The Hospitality Transfer Option prepares students to transfer to the University of Massachusetts Amherst's Isenburg School of Management as a third-year Hospitality and Tourism Management major. Career opportunities in this fast-growing industry exist in such diverse sectors as travel and tourism, lodging, the restaurant industry, recreation and leisure, gaming entertainment, and conference and meeting planning.

Upon graduating from this program, students will be able to use generic business skills as well as functionally based hospitality industry skills to define relationships between situations and understand professional terminology and concepts within the industry. Students will use mathematics and a business-oriented approach to identify, define, respond to and evaluate problem resolutions to global industry problems; understand the current ethical and social issues in the hospitality industry; and communicate effectively with colleagues and customers using a variety of information resources.

NOTES

¹ Select from: CSI 111, CUL 250, MGT 231, MKT 240. Students planning to attend UMass are urged to elect MGT 231.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant

students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for more information.

HUMAN RESOURCE MANAGEMENT CERTIFICATE – B010

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

PROGRAM OVERVIEW

Students who successfully complete this certificate program are prepared to begin entry-level positions in human resource management. Credits earned through the certificate program may be applied toward the A.S. in Human Resource Management as well. Students will learn human resource inventory management, recruiting and retention and organizational behavior. Upon

graduating from this program, students will be able to interpret accounting data and analyze financial statements, apply the marketing concept, appreciate the role of law in business, and define traditional functions of management and its contribution to strategic planning.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			15		
Employment Law	LAW 218		3		
Principles of Management	MGT 230		3		
Human Resource Management	MGT 231		3		
Introduction to Sociology or Introduction to Psychology	SOC 110 PSY 110	Eligibility for ENG 101	3		
Social Psychology	SOC 210 /PSY 210	SOC 110 or PSY 110	3		
PROGRAM ELECTIVES			9-10		
Human Resource Management Electives ¹			3		
Human Resource Management Electives ¹			3		
Human Resource Management Electives ¹			3		
Total Credits			24-25		

NOTES

¹ Select from ANT 114, BUS 115, BUS 280, CSI 111, HSV 113, PHI 103, PSY 110, PSY 260, SOC 110, SOC 214, SOC 220, SSN 120.

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

HUMAN RESOURCE MANAGEMENT OPTION – B011

A.S. in Business Administration

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			29-31		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Psychology (B) or Introduction to Sociology (B)	PSY 110 SOC 110	Eligibility for ENG 101	3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math Elective (D) ¹			3-4		
Math Elective (D) ¹			3-4		
PROGRAM REQUIREMENTS			28-29		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Professional Etiquette	BUS 112		1		
Money Management	BUS 114	Eligibility for MTH 085	1		
Computer Applications or Computer Concepts w/ Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Business Law	LAW 211		3		
Employment Law	LAW 218		3		
Principles of Management	MGT 230		3		
Human Resource Management	MGT 231		3		
Principles of Marketing	MKT 240		3		
PROGRAM ELECTIVES			9		
Humanities Elective (C) or Business Elective ²			3		
Humanities Elective (C) or Business Elective ²			3		
Humanities Elective (C) or Business Elective ²			3		
Total Credits			66-69		

PROGRAM OVERVIEW

This two-year associate degree option prepares students for careers in human resource management. Students will learn human resource inventory management, recruiting and retention and organizational behavior. Upon graduating from this program, students will be able to interpret accounting data and analyze financial statements, apply the marketing concept, appreciate the role of law in business, and define traditional functions of management and its contribution to strategic planning.

Students who intend to transfer should look at the following options: BO23 (Mass Transfer to UMass and Westfield State University; GPA 3.0 required for UMass), BO34 (General Transfer to most 4-year private colleges), BO37 (Marketing Management General Transfer Option to most 4-year private colleges), BO45 (Paralegal Option for transfer to Elms College and Bay Path College).

NOTES

¹ Select from MTH 160 (D), MTH 162 (D), MTH 113 (D), MTH 114 (D), or MTH 142(D). Students will not receive credit for both MTH 162 and MTH 113.

² Select from ACC, BUS, CSI, HCA, LAW, MGT, MKT, SEC, SPO.

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

HUMAN SERVICES CERTIFICATE – H019

CONTACT

Jackie Griswold, Ed.D, (413) 552-2333, jgriswold@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			9		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
Introduction to Psychology	PSY 110	Eligibility for ENG 101	3		
Introduction to Human Services	HSV 113	Eligibility for ENG 101	3		
PROGRAM ELECTIVES <i>(Select five from the following courses)</i>			15		
Introduction to the Study of Aging	GRT 110		3		
Any course with HSV, PSY, or Soc Designation.			3		
Any course with HSV, PSY, or Soc Designation.			3		
Any course with HSV, PSY, or Soc Designation.			3		
Any course with HSV, PSY, or Soc Designation.			3		
Any course with HSV, PSY, or Soc Designation.			3		
Total Credits			24		

NOTES

100% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

CORI (Criminal Offender Record Information) and SORI (Sexual Offender Registry Information) background checks may be required prior to field work and practicum placement and will be conducted by specific agencies in accordance with state regulations. CORI and SORI results are confidential.

PROGRAM OVERVIEW

The Human Services Certificate is appropriate for those considering a career change into the Human Services field as well as those in the field who may want to upgrade their skills and knowledge. It is also appropriate as part of a career ladder leading toward the Associate Degree in Human Services. The program offers an opportunity to acquire knowledge and skills which will enable individuals to work in a variety of areas. There are specialization courses from which students may select, depending on their areas of interest.

Opportunities in human services are available in human service agencies, community action programs, day care centers, educational settings, in work with the elderly, correctional facilities, substance abuse programs, and with those individuals who may have emotional, physical or developmental problems.

HUMAN SERVICES PROGRAM - H049

A.S. in Human Services

CONTACT

Jackie Griswold, Ed.D, (413) 552-2333, jgriswold@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Human Development (B)	PSY 216	PSY 110	3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
Human Biology (D)	BIO 111		4		
Laboratory Science (D)			4		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Math Electives (D)			3-4		
PROGRAM REQUIREMENTS			20		
Introduction to Human Services	HSV 113	Eligibility for ENG 101	3		
The Helping Relationship: Delivering Human Services	HSV 124	HSV 113 and PSY 110	3		
Introduction to Practicum	HSV 125	HSV 113, HSV 124 previously or concurrently, permission of department chair	3		
Professional and Ethical Standards in the Helping Professions	HSV 213	HSV 113	3		
Practicum I in Human Services	HSV 288	HSV 113, HSV 125, and PSY 110, all with a grade of C or better, HSV 124 previously or concurrently, with a grade of C or better, PSY 216	4		
Practicum II in Human Services	HSV 289	HSV 288 with a grade of C or better and permission of department chair	4		
PROGRAM ELECTIVES <i>(Select 3 from the following courses)</i>			9		
Cultural Anthropology	ANT 101		3		
Understanding Diversity and Valuing Similarities	ANT 114		3		
Child Abuse and Neglect	CRJ 110	SOC 110 or PSY 110	3		
Introduction to Developmental Disabilities	DVD 110	Eligibility for ENG 101	3		
Current Issues in Developmental Disabilities	DVD 210	HSV 113, DVD 110 and PSY 110	3		
Introduction to the Study of Aging	GRT 110		3		

PROGRAM OVERVIEW

The Associate Degree Program in Human Services combines courses in the social sciences, primarily psychology and sociology, with seminars and field work in the human services field. The human services field is rapidly expanding as our society changes. There will be an increasing job market or individuals who are generalists in the human services field and have a variety of skills. Based on the nationally recognized Community Support Skills Standards, which define the knowledge, skills and attributes necessary for individuals working in the human services field, the A.S. degree program in Human Services will provide students with an opportunity to acquire a solid academic preparation in human services that will allow them to enter the work force the work force upon completion, or transfer into a baccalaureate program.

Human services practitioners may work in group homes and halfway houses; correctional, and community mental health centers and facilities; family, child, and youth service agencies; and programs concerned with substance abuse, family violence, aging, and developmental disabilities.

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HUMAN SERVICES PROGRAM - H049 *continued*

A.S. in Human Services

CONTACT

Jackie Griswold, Ed.D, (413) 552-2333, jgriswold@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES (Continued)					
Conflict Resolution and Mediation	SSN 120		3		
Topics in Spanish for the Workplace	SPA 106	One semester of college level Spanish or one year of high school Spanish	3		
Any course with HSV, PSY, or Soc Designation.			3		
Any course with HSV, PSY, or Soc Designation.			3		
Any course with HSV, PSY, or Soc Designation.			3		
Any course with HSV, PSY, or Soc Designation.			3		
TOTAL CREDITS			64-65		

NOTES

* Select from any math with a (D) designation. Many transfer institutions prefer MTH 142 (D). However, students should check with their academic advisor to be sure that their choices will transfer to their selected institutions.

* Students interested in transferring are advised to enroll in MTH 142 (D).

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

CORI (Criminal Offender Record Information) and SORI (Sexual Offender

Registry Information) background checks may be required prior to field work and practicum placement and will be conducted by specific agencies in accordance with state regulations. CORI and SORI results are confidential.

INFORMATION TECHNOLOGY MANAGEMENT OPTION – N066

A.S. in Computer Information Systems

CONTACT

Jon Ventulett, (413) 552-2276, jventulett@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Social Science Elective (B)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math Elective (D)			3-4		
PROGRAM REQUIREMENTS			28		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Programming Fundamentals I	CSI 106	Eligibility for ENG 101 and MTH 095; CSI 111 previously or concurrently	4		
Computer Concepts w/Applications	CSI 111	Eligibility for ENG 101	4		
Programming Fundamentals II or Java Programming I	CSI 218 CSI 254	CSI 106, or permission of instructor; and CSI 111, and MTH 095 or Mathematics Placement Exam. CSI 106 and CSI 111	4		
Systems Analysis & Design	CSI 214	12 CSI credits	3		
Applied Database Management	CSI 242	CSI 111, BUS 115, BUS 215, or equivalent	3		
Network Development	CSI 251		3		
Principles of Management	MGT 230		3		
Total Credits			63-64		

PROGRAM OVERVIEW

This two-year program prepares students to enter the field of Information Technology in an entry-level position, or transfer to a four-year CIS, MIS, or IT program.

Upon completion of this degree, students will be able to:

- Work with technology from a variety of disciplines, including hardware, software, programming, and networking
- Understand the role of technology in business, and how it is applied
- Work and communicate successfully in a business computing environment
- Create, maintain, and interface with relational databases
- Create simple programs using modern, high-level languages
- Adapt to the ever-changing field by mastering core computing concepts.

Students who complete this degree and wish to transfer to a state college will be able to take advantage of the Mass Transfer Compact, allowing for guaranteed admission, reduced cost, and smoother transfer of credits.

NOTES

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree

Depending on the course selection 50% of this program can be completed online.

Go to www.hcc.edu/catalog for further information.

LAW ENFORCEMENT CERTIFICATE – S082

CONTACT

Nicole Hendricks, (413) 552-2175, nhendricks@hcc.edu

PROGRAM OVERVIEW

Developed in cooperation with the Massachusetts Chiefs of Police Association, the Law Enforcement Certificate Program prepares students for a career in law enforcement. The certificate combines specialized criminal justice and general education coursework to provide students with the knowledge and skills they need to compete for entry into the Massachusetts law enforcement field. All of the credits earned in the certificate program can be applied to a Quinn Bill eligible associate in science degree in criminal justice. Certificate students are required to meet HCC admissions standards and any pre-requisites for these courses.

Students graduating with Law Enforcement Certificate Holyoke Community College should:

- Think critically about contemporary issues in Law Enforcement in an in-

creasingly complex, technological, and diverse society.

- Communicate effectively both orally and in writing.
- Develop both quantitative and qualitative skills and abilities to critically analyze crime and Law Enforcement issues, for policy-making and problem-solving.
- Demonstrate an awareness of issues of diversity, including but not limited to race, gender, ethnicity, sexual orientation, age, social class, disability, and religious belief.
- Understand the interdisciplinary nature of the field and ethical issues in the American Law Enforcement system.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			27		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
Introduction to Sociology	SOC 110	Eligibility for ENG 101	3		
Introduction to Psychology	PSY 110	Eligibility for ENG 101	3		
Introduction to Criminal Justice	CRJ 100	Eligibility for ENG 095	3		
Criminal Evidence	CRJ 102	CRJ 100 and CRJ 112	3		
Criminal Law and Procedure	CRJ 112	CRJ 100	3		
Criminology	CRJ 117	SOC 110 or PSY 110	3		
Police Operations	CRJ 207	CRJ 100	3		
Human Relations: Diversity and Ethical Issues	CRJ 210	SOC 110 or PSY 110	3		
Total Credits			27		

NOTES

Department of Higher Education guidelines authorized by Section 18L of Chapter 41 in the Massachusetts General Laws DO NOT allow academic credit to be granted for:

- Life experience or military, police or other training; or
- Academic credit for knowledge-based testing (CLEP, DANTES, etc) to exceed 6 credits; or
- Tech-Prep credit.

Students being re-admitted into the certificate program will enroll in the current program of study.

Fifty (50) percent of the credits required for the certificate must be earned at Holyoke Community College. Any transfer credit must be earned at a PCIP-approved and BHE accredited program.

Students selecting this certificate are advised that employers in Criminal Justice and related fields conduct CORI and SORI checks pursuant to Massachusetts General Laws, Chapter 6, Sections 172-178 and regulations promulgated to such statutes.

Depending on the course selection, 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

LIBERAL ARTS AND SCIENCE OPTION – H010

A.A. in Arts and Science

CONTACT

Victor G. Katz, (413) 552-2491, vkatz@hcc.edu

PROGRAM OVERVIEW

Meets the freshman and sophomore requirements of most colleges and universities. Suggested for students who plan to transfer to a four-year institution and who contemplate a major within the liberal arts and sciences. Also excellent preparation for the workplace, civic engagement, and a successful, meaningful life in a rapidly changing, increasingly diverse and interconnected world. Students will choose from a broad range of courses across the arts and humanities, social sciences, and natural sciences, and will be chal-

lenged by free inquiry and intellectual rigor. Students will examine assumptions, frame searching questions, and consider great ideas from a variety of academic and cultural perspectives. The program strives to produce lifelong learners who read widely and insightfully, write carefully and persuasively, listen thoughtfully, communicate effectively, think independently and creatively, and who appreciate the intrinsic value of education.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science (B)			3		
Social Science (B)			3		
Social Science (B)			3		
Humanities (C)			3		
Humanities (C)			3		
Humanities (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Mathematics (D)			3-4		
PROGRAM REQUIREMENTS ¹			21		
			3		
			3		
			3		
			3		
			3		
			3		
			3		
GENERAL ELECTIVES <i>Any course listed in the catalog is acceptable.* (Sufficient to complete 60 credit graduation requirement)</i>			6		
			3		
			3		
Total Credits			60-61		

NOTES

Only six non-Arts and Science credits may be taken towards an A.A. degree.

¹Select from any course with the following prefix:

Humanities: ART, ASL, COM, EMS, DFS, ESL, ENG, FRH, GER, HIS (for Transfer Compact only and MassTransfer), HON, HUM, MUS, PHI, SPA, SPE, THE.

Social Sciences: ANT, DVD, ECN, GEO, GRT, HSV, HIS (HCC only - counted as Humanities for Transfer Compact and MassTransfer), POL, PSY, SOC, SSN, WST.

Lab Sciences: AST, BIO, CHM, ENV, ESC, FRS, PHS, PSC, SEM, SUS.

Miscellaneous: EGR, ENV, HRT, IDP, MTH.

Interdisciplinary Learning Community courses are highly recommended.

Some baccalaureate programs require a Foreign Language. Check with the transfer counselor to find out if yours does.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

MARKETING MANAGEMENT- GENERAL TRANSFER OPTION – B037

A.S. in Marketing Management

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			29-31		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Social Science Elective (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math Elective (D)			3-4		
Math Elective (D)			3-4		
PROGRAM REQUIREMENTS			31-32		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Professional Etiquette	BUS 112		1		
Money Management	BUS 114	Eligibility for MTH 085	1		
Computer Applications or Computer Concepts w/Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Introduction to Electronic Media	EMS 111		3		
Business Law	LAW 211		3		
Principles of Management	MGT 230		3		
Principles of Retailing	MKT 110		3		
Principles of Advertising	MKT 226		3		
Principles of Marketing	MKT 240		3		
PROGRAM ELECTIVES			6		
Humanities Electives (C) or Business Electives ¹			3		
Humanities Electives (C) or Business Electives ¹			3		
Total Credits			66-69		

PROGRAM OVERVIEW

This option is for students who wish to continue their marketing studies at a 4-year private institution (students should check with the transfer institution to determine the number of credits which will be accepted). This degree is not intended for transfer to UMass or any other state school. Upon graduating from this program, students will be able to apply the marketing concept, define traditional functions of management and their contribution to strategic planning, calculate business statistical data and quantify a variety of other business data, and define and execute the principles of retailing, advertising and customer service/sales.

Students transferring to the Isenberg School of Management at the University of Massachusetts Amherst, or to a business program at Westfield State University should choose Business Administration MASS Transfer as their major.

NOTES

¹ Business Electives should begin with the following prefix: ACC, BUS, CSI, HCA, LAW, MGT, MKT, SEC, SPO.

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

MARKETING MANAGEMENT- RETAIL MANAGEMENT CAREER OPTION – B081

A.S. Marketing Management

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			23		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Social Science Elective (B)			3		
Statistics (D) or Mathematics for Business Decisions	MTH 142 BUS 170	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination CSI 111, BUS 115 or BUS 215, Eligibility for MTH 095	3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
PROGRAM REQUIREMENTS			40-41		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Professional Etiquette	BUS 112		1		
Money Management	BUS 114	Eligibility for MTH 085	1		
Computer Applications or Computer Concepts w/Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Business Law	LAW 211		3		
Principles of Management or Human Resource Management	MGT 230 MGT 231		3		
Principles of Retailing	MKT 110		3		
Field Experience	MKT 211	MKT 110	6		
Principles of Advertising	MKT 226		3		
Customer Service & Sales	MKT 227		3		
Principles of Marketing	MKT 240		3		
Business Elective ¹			3		
Total Credits			63-64		

PROGRAM OVERVIEW

The Retail Management Career Option provides a foundation for careers in retail-store management. The program includes a six-credit field experience that often becomes the basis for full-time employment after graduation. Upon graduating from this program, students will be able to draw upon an actual retail experience, apply the marketing concept, define traditional functions of management and their contribution to strategic planning, calculate business statistical data and quantify a variety of other business data, discern informative and persuasive speaking and define and execute the principles of retailing, advertising and customer service/sales.

Students who intend to transfer should look at the following options: BO23 (Mass Transfer to UMass and Westfield State University; GPA 3.0 required for UMass), BO34 (General Transfer to most 4-year private colleges), BO37 (Marketing Management General Transfer Option to most 4-year private colleges), BO45 (Paralegal Option for transfer to Elms College and Bay Path College).

NOTES

¹Select from: ACC, BUS, CSI, HCA, LAW, MGT, MKT, SEC, SPO

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

MATHEMATICS GENERAL TRANSFER OPTION – N017

A.S. in Arts and Science

CONTACT

John Sullivan, (413) 552-2436, jsullivan@hcc.edu

PROGRAM OVERVIEW

This option prepares students to transfer to mathematics programs at four-year colleges and universities **outside the Massachusetts state system.**

With a bachelor's or graduate degree in mathematics, one can qualify for a broad range of careers in industry, business, government, and teaching.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Laboratory Science (D) ¹			4		
Laboratory Science (D) ¹			4		
PROGRAM REQUIREMENTS			12		
Calculus I	MTH 113	MTH 108 or adequate score on the Mathematics Placement Exam	4		
Calculus II	MTH 114	MTH 111 or MTH 113	4		
Calculus III	MTH 213	MTH 114	4		
SUGGESTED ELECTIVES <i>(Sufficient to complete 60 credit graduation requirement)</i>			28		
Linear Algebra (Fall)	MTH 205	MTH 112 or MTH 114, previously or concurrently	3		
Differential Equations (Spring)	MTH 214	MTH 212 or MTH 213, previously or concurrently	3		
Discrete Mathematical Structures (Spring)	MTH 230	MTH 111 or MTH 113	3		
Social Science Elective (B)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
General Elective			1-4		
General Elective			1-4		
General Elective			1-4		
Total Credits			60		

NOTES

¹ PHS 111-112 recommended.

Students should check with their intended transfer institution. Students planning to transfer to a college or university within the Massachusetts State System should consider the Mathematics Mass Transfer Option - N015, instead of this option.

- The primary function of this program is to prepare the student to transfer to a four-year college and major in mathematics.
- The program can also serve as a first step towards pursuing a four-year degree in a related field where a strong background in mathematics is needed, such as engineering, computer science, actuarial science, business management and finance.
- Regardless of their future plans, this program is intended to provide all students with the opportunity to expand their knowledge of mathematics and improve their skills in problem solving and critical thinking. The ability to solve problems and figure things out is of tremendous value in so many areas, and in life in general, that this program can serve as a first step towards a career in many different fields.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

MATHEMATICS MASS TRANSFER OPTION – N015

A.S. in Arts and Science

CONTACT

John Sullivan, (413) 552-2436, jsullivan@hcc.edu

PROGRAM OVERVIEW

This option prepares students to transfer to mathematics programs at four-year colleges and universities **within the Massachusetts State System.**

With a bachelor's or graduate degree in mathematics, one can qualify for a broad range of careers in industry, business, government, and teaching.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Laboratory Science (D) ¹			4		
Laboratory Science (D) ¹			4		
PROGRAM REQUIREMENTS			24		
Calculus I	MTH 113	MTH 108 or adequate score on the Mathematics Placement Exam	4		
Calculus II	MTH 114	MTH 111 or MTH 113	4		
Calculus III	MTH 213	MTH 114	4		
Social Science Elective (B)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
SUGGESTED ELECTIVES <i>(Sufficient to complete 60 credit graduation requirement)</i>			16		
Linear Algebra (Fall)	MTH 205	MTH 112 or MTH 114, previously or concurrently	3		
Differential Equations (Spring)	MTH 214	MTH 212 or MTH 213, previously or concurrently	3		
Discrete Mathematical Structures (Spring)	MTH 230	MTH 111 or MTH 113	3		
General Elective			1-4		
General Elective			1-4		
General Elective			1-4		
Total Credits			60		

NOTES

¹ PHS 111-112 recommended.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

- The primary function of this program is to prepare the student to transfer to a four-year college and major in mathematics.
- The program can also serve as a first step towards pursuing a four-year degree in a related field where a strong background in mathematics is needed, such as engineering, computer science, actuarial science, business management and finance.
- Regardless of their future plans, this program is intended to provide all students with the opportunity to expand their knowledge of mathematics and improve their skills in problem solving and critical thinking. The ability to solve problems and figure things out is of tremendous value in so many areas, and in life in general, that this program can serve as a first step towards a career in many different fields.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

MEDICAL ASSISTANT CERTIFICATE – M010

CONTACT

Susan Morison , (413) 552-2087, smorison@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			28		
Medical Terminology	HTH 114		3		
Medical Manager	MEA 104		2		
Insurance, Coding, Billing & Collections	MEA 106		2		
Health Office Practices & Procedures	MEA 107		2		
Phlebotomy & Intravenous Techniques*	MEA 108		2		
A&P for Medical Assistants	MEA 109		2		
Introduction to Medical Assisting	MEA 110		2		
Electrocardiogram for Medical Assistants*	MEA 125		2		
Introduction to Drug Therapy	MEA 150		2		
Clinical Medical Assisting Techniques*	MEA 210		3		
Medical Assistant Externship* (last course to be taken)	MEA 220		3		
Introduction to Psychology	PSY 110	Eligibility for ENG 101	3		
Total Credits			28		

NOTES

Acceptance to the Medical Assistant Certificate Program will be on a selective basis.

- Students must be eligible for ENG 101.
- Successful completion of HTH 114 Medical Terminology and PSY 110 Intro to Psychology with a C or better.
- Prospective students must file an application with the Admissions office by:
Fall 2013 **by** June 14, 2013
Spring 2014 **by** December 6, 2013

Once accepted to the program, students are required to attend the Medical Assistant Orientation.

- All academic MEA courses are offered in the evening only.
- There will be a mandatory orientation prior to the start of the program.

- A grade of C or better in all MEA course work is required.
- Students are required to have updated physical and immunizations.
- Students must complete a CORI / SORI screening upon acceptance into the program and before externship.
- Clinical Externships are approximately 25 hours per week (160 total) in facilities with primarily daytime hours.
- Students who have completed BIO 111 or BIO 217 and BIO 218 with a C or better within the last seven years do not need to take MEA 109.

*Uniforms will be required for the following courses, MEA 108, MEA 125, MEA 210.

First semester: MEA 104, 106, 109, 110

Second semester: MEA 107, 108, 125, 150, MEA 210 **or**

Third semester: MEA 210

Fourth semester: MEA 220 (offered every semester)

PROGRAM OVERVIEW

This certificate program prepares students for employment in health care clinics, hospitals, health maintenance organizations, insurance companies or physician's offices.

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

- Maintain electronic health records for patient data, reimbursement, claims submission and payment
- Perform basic phlebotomy techniques
- Describe the major organ systems and pathological conditions that affect the human body
- Perform electrocardiography procedures
- Describe the major drug classifications, regarding indications and mechanisms of action, and potential for drug-drug or drug-food interactions
- Obtain patient history, vital signs and prepare the patient for examination.

Upon successful completion of the medical assisting registry exam, as administered by the American Medical Technologists, the student will become a registered medical assistant (RMA).

MEDICAL BILLING CERTIFICATE PROGRAM – M044

CONTACT

Susan Morison , 413-552-2087, smorison@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			22		
Introduction to Health Information Management	HIM 103		2		
Health Insurance Reimbursement and Computerized Billing	HIM 104		4		
Electronic Records	HIM 106		3		
Human Anatomy, Physiology & Disease Processes	HIM 107	HTH 114	4		
Coding Procedures	HIM 223		3		
Medical Billing Coop	HIM 286	HIM 104, HIM 107 HIM 223	3		
Medical Terminology	HTH 114		3		
Total Credits			22		

PROGRAM OVERVIEW

The purpose of this certificate is to provide students the opportunity to learn and practice in the field of medical billing as an entry into the field of health information management. Students will have the opportunity to perform medical billing procedures in order to complete health insurance claims according to the requirements of the health insurance industry. Upon completion of the certificate, students are prepared to work in a physician's office, long-term care facilities, insurance and billing departments and health information management departments.

Upon completion the student will:

- Be able to describe the field of electronic medical records.
- Document proficiency in preparing the documentation necessary in medical billing.
- Demonstrate a basic proficiency in anatomy and physiology to the extent required for medical coding to prepare billing documents and provide record quality control.
- Practice coding and billing skills in an electronic environment and through coop placement to be workplace ready upon graduation.

MEDICAL CODING CERTIFICATE PROGRAM – M049 (Please note that the Medical Coding Certificate program is being discontinued as of August 15, 2014)

CONTACT

Susan Morison , 413-552-2087, smorison@hcc.edu

PROGRAM OVERVIEW

Prepares students to access health information, identify diagnoses and assign appropriate codes to narrative descriptions of health diseases and procedures required for reimbursement, medical research, quality assurance or risk management. Also provides students with the opportunity to perform medical billing procedures in order to complete health insurance claims according to the requirements of the health insurance industry. Upon comple-

tion of the certificate, students are prepared to work in a physician's office, long-term care facilities, insurance and billing companies, health information management department or emergency room of hospitals. Within three months of completion of the program, students are eligible to sit for the Certified Coding Associate exam offered through the American Health Information Management Association.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			28		
Introduction to Health Information Management (Fall)	HIM 103		2		
Health Insurance Reimbursement and Computerized Billing (Fall)	HIM 104		4		
A&P for Medical Coding (Fall)	HIM 105		2		
Electronic Records (Spring)	HIM 106		2		
Introduction to the Study of Disease (Spring)	HIM 204		3		
Coding Procedures (Fall)	HIM 223		3		
Coding Principles and Applications (Spring)	HIM 224		4		
Advanced Coding (Fall)	HIM 225		3		
Medical Coding Coop ¹	HIM 283	HIM 225	2		
Medical Terminology	HTH 114		3		
Total Credits			28		

NOTES

Acceptance to the Medical Coding Certificate Program will be on a selective basis.

- Students must be eligible for ENG 101.
- Successful completion of HTH 114 Medical Terminology with a C or better.
- Prospective students must file an application with the Admissions office by: June 14, 2013

Once accepted, students are required to attend the Medical Coding Orientation.

The program begins every fall and is offered only in the evenings.

- An insurance liability fee may be charged for HIM 283.
- Courses are offered once a year and must be taken in their sequential order.

- Students must successfully pass all courses prior to taking the next semester courses.
- Students who have completed BIO 111 or BIO 217 and BIO 218 with a C or better within the last seven years do not need to take HIM 105.

¹ HIM 283 in facilities with primarily daytime hours.

Fall: HIM 103, HIM 104, HIM 105

Spring: HIM 204, HIM 224, HIM 106

Fall: HIM 223, HIM 225

Spring and Summer: HIM 283

MUSIC PERFORMANCE CERTIFICATE – H027

CONTACT

Elissa Brill Pashkin, D.M.A., (413) 552-2291, ebrill@hcc.edu

PROGRAM OVERVIEW

The purpose of the certificate is to acknowledge college-level work in Music for those who are not completing the full A.A. degree in Music. Upon completion of the certificate, when combined with another associate degree program, students will be prepared to pursue a Bachelor of Arts (rather than a Bachelor of Music) degree, or minor in Music, at their transfer institution. Students who are not also enrolled in an Associate's program will be prepared to audition at institutions that require a performance audition for admission. The certificate may be used by those students who would like to augment any degree program at the college with serious study in music, or simply to

improve performance skills for personal enrichment.

Holyoke Community College is an accredited institutional member of the National Association of Schools of Music.

National Association
of Schools of Music
11250 Roger Bacon Drive, Suite 21
Reston, Virginia 20190
(709) 437-0700

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			21		
Music Fundamentals ¹	MUS 100		3		
Music Theory 1 (Fall)	MUS 105	MUS 100 with a grade of "B" or better, or permission of instructor	3		
Music Theory 2 (Spring)	MUS 107	MUS 105	3		
Aural Skills 1 (Fall)	MUS 131	MUS 105 previously or concurrently	1		
Aural Skills 2 (Spring)	MUS 132	MUS 131, and MUS 107 previously or concurrently	1		
Class Piano 1 (Fall) ²	MUS 135		1		
Class Piano 2 (Spring)	MUS 136	MUS 135	1		
Applied Music for Majors 1	MUS 171	Audition	2		
Applied Music for Majors 2	MUS 172	MUS 171	2		
College Chorale 1	MUS 161		1		
College Chorale 2	MUS 162	MUS 161	1		
*2 credits of sequential instrumental or vocal ensembles	MUS 121-122 MUS 127-128 MUS 111-112 MUS 141-142 MUS 155-156		2		
PROGRAM ELECTIVES <i>(Select 3 or 4 credits from the list, one 3-credit course or two 2-credit courses, additional electives are suggested)</i>			3-4		
Introduction to World Music	MUS 106		3		
Introduction to Classical Music	MUS 110		3		
Introduction to Jazz	MUS 140		3		
Class Voice Methods	MUS 115	MUS 100 previously or concurrently	2		

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MUSIC PERFORMANCE CERTIFICATE – H027 *continued*

CONTACT

Elissa Brill Pashkin, D.M.A., (413) 552-2291, ebrill@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES <i>continued</i>					
Woodwind Instrumental Methods	MUS 116	MUS 100 previously or concurrently	2		
String Instrumental Methods	MUS 117	MUS 100 previously or concurrently	2		
Brass Instrumental Methods	MUS 118	MUS 100 previously or concurrently	2		
Percussion Instrumental Methods	MUS 125	MUS 100 previously or concurrently	2		
Rock and Pop Music in America	MUS 126		3		
Topics in Music	MUS 150	Eligibility for ENG 101	3		
Jazz Improvisation 1 (Fall)	MUS 151	MUS 100 with a grade of B or better, or permission of instructor	2		
Jazz Improvisation 2 (Spring)	MUS 152	MUS 151	2		
Introduction to Music Technology	MUS 180		3		
Musical Theater Workshop 1	MUS 181/ THE 181	Previous auditioned placement into College Chorale (MUS 161.01) or Chamber Vocal Ensemble (MUS 121.05 or MUS 127.05), or permission of the instructor. New students will be auditioned the first day of class, and should be prepared for a possible schedule adjustment during the add/drop period, if necessary.	3		
Musical Theater Workshop 2	MUS 182/ THE 182	MUS 181 or THE 181 MUS 181 or THE 181	3		
Advanced Topics in Music	MUS 250	MUS 107 (Music theory 2), Eligibility for ENG 101	3		
Music Literature 1	MUS 259	Eligibility for ENG 102, and MUS 208 previously or concurrently	3		
Music Literature 2	MUS 260	MUS 259, and MUS 208 previously or concurrently, or permission of instructor	3		
Total Credits			24-25		

NOTES

¹Students who place out of MUS 100 may substitute any other 3 credits in Music

This program may be completed in one year, but may also be spread out over the course of several years while enrolled in another program of study at Holyoke Community College.

²The Class Piano requirement may be waived for students who demonstrate in an audition that they already possess the necessary piano skills.

MUSIC PROGRAM – H025

A.A. in Music

CONTACT

Elissa Brill Pashkin, D.M.A., (413) 552-2291, ebrill@hcc.edu

PROGRAM OVERVIEW

This program, designed for transfer to bachelor's degree programs in music in colleges and universities, provides students with a comprehensive foundation. Upon completion of the program, students will be prepared for further college-level study in music.

Students receive a rich perspective of music through exposure to many artistic and culturally diverse styles. The department offers free public concerts, hosts guest performers and speakers,

and sponsors an annual jazz festival, all of which develop a strong bond with the surrounding community.

Students enter the Music Program through audition. Those students demonstrating significant potential, but with limited background in music reading or performance technique, will be placed in preparatory classes designed to develop the skills needed for college-level work.

Holyoke Community College is an accredited institutional member of the National Association of Schools of Music.

National Association of Schools of Music
11250 Roger Bacon Drive, Suite 21
Reston, Virginia 20190
(703)437-0700

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			26 27		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science (B)			3		
Social Science (B)			3		
Social Science (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math (D)			3-4		
PROGRAM REQUIREMENTS			38		
Music Theory 1 (Fall) ¹	MUS 105	MUS 100 with a grade of "B" or better, or permission of instructor	3		
Music Theory 2 (Spring)	MUS 107	MUS 105	3		
Music Theory 3 (Fall)	MUS 208	MUS 107	3		
Music Theory 4 (Spring)	MUS 209	MUS 208	3		
Aural Skills 1 (Fall)	MUS 131	MUS 105 previously or concurrently	3		
Aural Skills 2 (Spring)	MUS 132	MUS 131, and MUS 107 previously or concurrently	3		
Aural Skills 3 (Fall)	MUS 233	MUS 132, and MUS 208 previously or concurrently	3		
Aural Skills 4 (Spring)	MUS 234	MUS 233, and MUS 209 previously or concurrently	3		

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MUSIC PROGRAM – H025 *continued*

A.A. in Music

CONTACT

Elissa Brill Pashkin, D.M.A., (413) 552-2291, ebrill@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS <i>continued</i>					
Class Piano 1 (Fall) ²	MUS 135		1		
Class Piano 2 (Spring)	MUS 136	MUS 135	1		
Class Piano 3 (Fall)	MUS 237	MUS 136	1		
Class Piano 4 (Spring)	MUS 238	MUS 237	1		
Music Literature 1 (Fall)	MUS 259	ENG 102, and MUS 208 or permission of instructor	3		
Music Literature 2 (Spring)	MUS 260	MUS 259, and MUS 209 or permission of instructor	3		
Applied Music for Majors 1	MUS 171	Audition	2		
Applied Music for Majors 2	MUS 172	MUS 171	2		
Applied Music for Majors 3	MUS 273	MUS 172	2		
Applied Music for Majors 4	MUS 274	MUS 273	2		
College Chorale 1	MUS 161		1		
College Chorale 2	MUS 162	MUS 161	1		
College Chorale 3	MUS 263	MUS 162	1		
College Chorale 4	MUS 264	MUS 263	1		
PROGRAM ELECTIVES ³			4		
			1-3		
			1-3		
			1-3		
Total Credits			68-69		

NOTES

¹MUS 100 is a degree requirement for those not prepared to enter MUS 105

²The Class Piano requirement may be waived for students who demonstrate in an audition that they already possess the necessary piano skills.

³Selected from Ensembles, Jazz Improvisation, and Methods courses. In the case of 1-credit ensembles, at least 2 credits (2 semesters) of the course sequence must be taken. Please consult with your academic advisor when selecting Program Electives

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

NATURAL RESOURCES STUDIES TRANSFER OPTION – X021 (University of Massachusetts)

A.A. in Arts and Science

CONTACT

Jamie Laurin, (413) 552-2523, jlaurin@hcc.edu

PROGRAM OVERVIEW

Applies toward a Natural Resource Studies degree in the Department of Forestry and Wildlife Management at the University of Massachusetts. This program is for students who have specific career goals not met by other natural

resource or environmental majors at the University. As part of the College of Food and Natural Resources, a foreign language is not required.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
General Biology for Non-Majors: The Processes of Life (D)	BIO 101	Eligibility for English 101	4		
General Biology II: Diversity of Life on Earth (D)	BIO 108	BIO 100, BIO 103 or BIO 107	4		
Ecological Economics (B)	ECN 120	Any ECN course with a passing grade of C- or better, or eligible for MTH 095, or by permission of instructor.	3		
State and Local Government (B)	POL 120		3		
Introduction to Economics (B)	ECN 100		3		
History of the United States I (C)	HIS 111		3		
American Environmental History (C)	HIS 225	Eligibility for English 101	3		
Clear Thinking/Sound Reasoning (C)	PHI 103		3		
College Algebra (D)	MTH 104	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	4		
PROGRAM REQUIREMENTS			25		
Plants of New England	BIO 215	A semester course in college biology or environmental science	4		
Environmental Geology	ENV 137		4		
Soil and the Environment	ENV 138		4		
Mapping with Geographic Information Systems	ENV 125		3		
Introduction to Sociology	SOC 110	Eligibility for English 101	3		
Principles of Chemistry I or Inorganic Chemistry I	CHM 113 CHM 121		4		
Statistics	MTH 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
Total Credits			61		

NOTES

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges and universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection, 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

NURSING – M066

A.S. In Nursing

CONTACT

Health and Natural Sciences Division Office, (413) 552-2467

PROGRAM OVERVIEW

Nursing is the art and science of caring. Nursing is an interpersonal process based on values, beliefs and standards of the profession. Nursing is a profession which utilizes nursing knowledge and principles from the humanities and the biological, behavioral and social sciences to assist individuals, groups and communities in promoting, maintaining and restoring health.

The HCC A.S. Nursing Program is approved by the Massachusetts Board of Registration in Nursing and is accredited by the National League for Nursing Accrediting Commission (NLNAC).

*NLNAC
3343 Peachtree Road NE
Suite 850
Atlanta, GA 30326
Telephone: (404) 975-5000 • Fax: (404) 975-5020 • www.nlnac.org

*** CRIMINAL OFFENSE RECORD INFORMATION ACT (CORI) AND SEX OFFENDER REGISTRY INFORMATION (SORI)

STATE STATUTES THAT REGULATE LICENSURE AS A REGISTERED NURSE. ***

CORI and SORI are state statutes that regulate licensure as a registered nurse. Prior to official enrollment and at the beginning of each semester in Nursing Programs, all accepted applicants and students must give permission for CORI and a SORI check. Some clinical agencies prohibit clinical participation if there is a finding when the CORI check is complete. Participation in planned clinical experiences throughout the curriculum is required; however, acceptance into the program does not guarantee placement in a clinical agency. All applicants and nursing students will be subject to the Criminal Record Information Act (CORI check), the Sex Offender Registry Information Act (SORI), Massachusetts General Laws, Chapter 6, Section 172-178, and Massachusetts General Laws, Chapter 18a, Section 1, et seq., and regulations promulgated pursuant to such statutes. Court record/past conviction may present a barrier to eligibility for licensure as a registered nurse (RN) or as a licensed practical nurse (LPN). Applicants with a court record/past conviction are advised to consult an attorney to determine eligibility to meet legal qualifications for nurse licensure in Massachusetts.

All applicants for licensure as RN or LPN must be of “good moral character” as required by the Massachusetts Board of Registration in Nursing statutes and regulations. The licensure applicant must have had no criminal convictions for a minimum of five (5) years before the date of submission of the license application and must have successfully completed all court ordered stipulations a minimum of one (1) year before the applicant will be considered for licensure by the Board (Massachusetts General Laws, Chapter 112, ss.74, 74A, and 76). Refer to <http://www.state.ma.us/boards/rn/> for further information.

Students accepted to an educational program that prepares for licensure as a registered nurse should be aware that a court record may present a barrier to her/his ability to obtain licensure in the Commonwealth of Massachusetts and other jurisdictions in the United States.

The **A.S. Nursing Program Application** for the Nursing Program can be found either by contacting the Admissions office, (413) 552-2321 or by going to the HCC website: <http://www.hcc.edu>. New students in the nursing major begin the first nursing course in September of each year. Students must achieve a minimum grade of C+ in all nursing and laboratory science courses

(A&P I, II, and microbiology) to remain in and graduate from this program.

All applicants must complete the NLN - PAX nursing entrance exam prior to submitting the nursing program application. See nursing application for details.

Drug Screening Policy

Several Health Care Facilities affiliated with the College's Health Division are now requiring that students have a negative drug screen prior to beginning clinical experiences in their facility. In addition, a clinical facility may require the student to submit and pass random drug screening analysis in order to remain at that facility. Therefore, passing a drug screen will now be considered an essential function for all students participating in the Health Division Programs. If a student fails drug screening, retesting occurs within 24 hours of notification of results. Failure to pass a drug screen or refusal to submit to screening will make the student ineligible for clinical placement. Failure and/or refusal for drug screening are grounds for immediate removal from the Health Division Program. Students will be provided with the drug screen procedure during the orientation process to each course. All screening will be at the student's own expense. The Work Connection at Holyoke Medical Center has been selected as the Division of Health's exclusive laboratory for student drug testing. Appointments will be scheduled by the nursing department.

All applicants must meet the following requirements at the time of their application:

The **College Placement Testing (CPT)** must be completed within two years of application deadline demonstrating the following placement:

Math Proficiency/Placement: ≥ 82 in Algebra or completion of MTH 095 (Intermediate Algebra) or comparable with a C- or better from an accredited college or university.

English Proficiency/Placement: ≥ 70 in Reading and ≥ 80 in the Sentence portion of the CPT or ability to enter college-level coursework in English. English competency may also be demonstrated through college coursework (completion of English Composition I). **Please see the information packet for further details if English is not your first language or if you did not attend K through 12 in the U.S.**

Science Proficiency: the HCC Biology Department requires the successful completion (C or better) of BIO 100, or 103 prior to taking Anatomy and Physiology. This pre-requisite may be waived by passing the Biology challenge exam.

Completion of Anatomy and Physiology I and Anatomy and Physiology II prior to the application deadline is strongly encouraged. Applicants currently working in a healthcare field can petition to lengthen the time that their laboratory science coursework is transferable from 7 to 14 years by completing the **Laboratory Science Petition Form** in the **A.S. Nursing Program Application**. This application can be found either on-line at the HCC website under “Admissions”.

Please see the **A.S. Nursing Program Application** for other important information concerning required documentation and requirements for admission. Applicants in the Nursing Program are reminded that transportation is the responsibility of the

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Read the catalog online at www.hcc.edu/catalog

NURSING – M066 *continued*

student. Since clinical experiences are scheduled at various times, students must plan for and meet the irregular time requirements that result and plan for their own transportation.

Program Outcomes

- 90% of the students graduating from the Nursing Education Program will pass the NCLEX-RN exam on their first attempt.

- The graduates will rank in the 80th percentile or better in the NCLEX-RN State and National standing.
- 90% of graduates of the Nursing Education Program will be employed in nursing within one year of graduation.
- 85% of the graduate surveys returned will indicate that the Nursing Education Program was satisfactory in preparation for the entry into nursing practice in a variety of health care settings.
- 85% of employer surveys returned will indicate satisfaction with graduate performance in the workplace.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CO-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS¹				30		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.		3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher		3		
Human Anatomy and Physiology I (D)	BIO 217	A "C" grade or better in BIO 100 (including lab), or BIO 103 or BIO 107 or a passing score on the challenge exam.		4		
Human Anatomy and Physiology II (D)	BIO 218	BIO 217		4		
Microbiology (D)	BIO 229	BIO 100 or BIO 103 or BIO 107 or BIO 110 or BIO 120		4		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101		3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101		3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101		3		
Human Development (B)	PSY 216	PSY 110		3		
PROGRAM REQUIREMENTS¹				42		
Fundamentals of Nursing (Fall)	NUR/PNR 170	Acceptance into the Nursing Program	PHM 171, NUR/PNR 172	9		
Health Promotion & Maintenance Across the Lifespan (Spring)	NUR/PNR 180	NUR/PNR 170, 172, PHM 171	PHM 181	9		
Acute Care Across the Lifespan (Fall)	NUR 270	NUR/PNR 180, PHM 181	PHM 271	8		
Complex Care Across the Lifespan (Spring)	NUR 280	NUR 270, PHM 271	PHM 281, NUR 282	8		
Pharmacology I (Fall)	PHM 171	Acceptance into the Nursing Program	NUR/PNR 170, 172	1		
Pharmacology II (Spring)	PHM 181	NUR/PNR 170, 172, PHM 171	NUR/PNR 180	1		
Pharmacology III (Fall)	PHM 271	NUR/PNR 180, PHM 181	NUR 270	1		
Pharmacology IV (Spring)	PHM 281	NUR 270, PHM 271	NUR 280, 282	1		
Role Development 1 (Fall)	NUR/PNR 172	Acceptance into the Nursing Program	NUR 170, PHM 171	2		
Role Development 2 (Spring)	NUR 282	NUR 270, PHM 271	NUR 280, PHM 281	2		
Total Credits				72		

NOTES

¹All candidates must achieve a C+ or better in all NURSING and laboratory science courses (A&P I and II and microbiology) to remain in the program. For additional information go to www.hcc.edu

NUTRITION AND FOOD TRANSFER OPTION – M071

A.A. in Arts and Science

CONTACT

Laura Hutchinson (413) 552-2300, lhutchinson@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Cultural Anthropology (B)	ANT 101		3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Introduction to Sociology	SOC 110	Eligibility for ENG 101	3		
General Biology I: Introduction to Cell Function (D)	BIO 107		4		
Microbiology (D)	BIO 229	BIO 100 or BIO 103 or BIO 107 or BIO 110 or BIO 120	4		
Statistics (D)	MTH 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
PROGRAM REQUIREMENTS			26		
Anatomy and Physiology I	BIO 217	A "C" grade or better in BIO 100, 103, BIO 107 or a passing score on the challenge exam.	4		
Anatomy and Physiology II	BIO 218	BIO 217	4		
Principles of Chemistry I	CHM 113	High School Algebra I or equivalent recommended	4		
Principles of Chemistry II	CHM 114	CHM 113 or equivalent. High School Algebra I or equivalent recommended	4		
Organic Chemistry I (Fall only)	CHM 221	CHM 124, 114, or 102 with permission of instructor	4		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
Nutrition Science for Nutrition Majors (Spring)	NTR 230	BIO 100, BIO 101, BIO 217 pre or co-requisite: CHM 221.	3		
Total Credits			61		

NOTES

Students interested in transferring to Dietetics Programs should consider MGT 230 and MGT 231

Students interested in transferring to Nutrition Research Programs should consider CHM 222

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

PROGRAM OVERVIEW

The Nutrition Program at HCC is a transfer program for articulation with the University of Massachusetts at Amherst or other 4-year institutions with nutrition and food science programs. Upon completion of this program the student will be able to:

- Discuss nutrition as it relates to health and well-being
- Discuss the factors that influence behaviors and attitudes about food
- Discuss the macro- and micro-nutrients and identify current recommendations for and sources of each
- Identify nutritional needs through the lifecycle
- Discuss food digestion and metabolism
- Discuss dietary practices of different cultures
- Discuss dietary supplementation risks and benefits
- Discuss food safety and security
- Demonstrate effective interpersonal skills required by nutrition advisors
- Explain the relationship between nutrition, physical activity, and fitness
- Provide recommendations for physical activity
- Transfer to a 4 year institution to pursue a Bachelor's of Science in Nutrition and qualify for participation in a one-year ADA internship and become licensed to work in all fields of Nutrition in the United States.

PARALEGAL TRANSFER OPTION – B045

A.S. in Business Administration

CONTACT

Kelly O'Connor, (413) 552-2315, koconnor@hcc.edu

PROGRAM OVERVIEW

The Paralegal Transfer option prepares students for transfer to some four-year programs in paralegal studies; students should contact the transfer coordinator to identify these opportunities. Upon graduating from this pro-

gram, students will be able to describe the structure of the American legal system, identify the principles and process of civil litigation and define basic areas of substantive law such as contract and torts.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			23-24		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
History of the United States I (C)	HIS 111		3		
History of the United States II (C)	HIS 112		3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math Elective (D) ¹			3-4		
PROGRAM REQUIREMENTS			36-37		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Computer Applications or Computer Concepts w/Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Business Communications	BUS 220	ENG 101	3		
Public Speaking	COM 150		3		
Introduction to Legal Studies	LAW 210		3		
Business Law	LAW 211		3		
Principles of Litigation (Spring)	LAW 214		3		
Employment Law or Human Resource Management	LAW 218 MGT 231		3		
U.S. National Government or State and Local Government	POL 110 POL 120		3		
Introduction to Psychology	PSY 110	Eligibility for ENG 101	3		
PROGRAM ELECTIVES			6		
Paralegal Electives ²			3		
Paralegal Electives ²			3		
Total Credits			65-67		

NOTES

¹ Select from MTH 160 (D), MTH 162(D), MTH 113(D), or MTH 142(D); Select from MTH 104(D) & MTH 142(D) for Elms College and MTH 142(D) for BayPath College.

² Select from: ACC 205, CRJ 100, CRJ 112, LAW 215, LAW 218, MGT 230, SPO 211, WST 215.

Students will not receive credits for both MTH 162 & MTH 113.

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

PERSONAL TRAINER/FITNESS COUNSELOR CERTIFICATE – M103

CONTACT

Patti Mantia, Ed.D, (413) 552-2449, pmantia@hcc.edu

PROGRAM OVERVIEW

The Personal Trainer/Fitness Counselor Certificate program is designed for the individual with an interest in working one-on-one with clients to develop or enhance their health and fitness goals.

- Define the roles and responsibilities of the personal trainer/fitness counselor
- Describe and discuss human movement from physiological and biomechanical perspectives
- Define ACSM (American College of Sports Medicine) guidelines fitness
- Describe and administer fitness assessments for each of the components of fitness and relate findings to fitness program design
- Discuss exercise programming considerations for populations with medical concerns and demonstrate basic emergency care procedures
- Define and employ leadership competencies such as effective interviewing skills and motivational techniques
- Identify business opportunities available to the personal fitness counselor and define steps to implement business plan(s)
- Develop and implement an individualized fitness program.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			10		
Standard First Aid and Personal Safety/CPR <u>or</u> Sports First Aid	HFN 103 HFN 104	Students can not receive credit for both HFN 103 and HFN 104	1		
Personal Training and Fitness Counseling	HFN 183		3		
Professional Fitness Seminar/Internship ¹	HFN 190	with permission of instructor	3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
Select 2 of the following courses			2		
PACE (People with Arthritis Can Exercise)	HFN 108	HFN 134 or HFN 183, or HFN 180 and HFN 181 or Industry Certification in Group Exercise or Personal Training or permission of instructor or department chair	1		
Physical Conditioning I	HFN 180		1		
Physical Conditioning II	HFN 181		1		
Physical Conditioning III	HFN 182		1		
Total Credits			12		

NOTES

¹This course should be taken at the end of the program.

PHOTOGRAPHY OPTION – H041

A.S. in Visual Art

CONTACT

Robert Aller, (413) 552-2490, raller@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			26-27		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math (D)			3-4		
PROGRAM REQUIREMENTS			21		
Basic Drawing	ART 121		3		
Basic Design I	ART 123		3		
Basic Design II	ART 124	ART 123	3		
Introduction to Art History I	ART 131	ENG 101, previously or concurrently	3		
Introduction to Art History II	ART 132	ENG 101, previously or concurrently	3		
Basic Still Photography	ART 140	35mm SLR camera required	3		
Advanced Photography	ART 141	ART 140; 35 mm SLR camera is required	3		
PROGRAM ELECTIVES <i>(select 5 from the following courses)</i>			13-15		
General Elective			1-3		
Humanities Elective (C)			3		
Photography Elective ¹			3		
Photography Elective ¹			3		
Photography Elective ¹			3		
Photography Elective ¹			3		
Photography Elective ¹			3		
Visual Communication Elective ²			3		
Total Credits			60-63		

PROGRAM OVERVIEW

Successful completion of the photography option will result in the production of a portfolio of photographs created by various methods. The portfolio should include a minimum of twenty works completed in our studio sections. Works will feature the student's ability to compose in 2D, with special emphasis placed on at least one of the suggested areas of photographic study in our program. Skillful use of the camera, competency in both traditional and digital darkroom practices, and constructive development of creative visual concepts should be evident in the learning process. Understanding of the basic concepts and terminology in photography is essential. The portfolio is required for transfer to upper level studies leading to the B.A. or B.F.A. degree for students transferring to four-year art colleges and universities.

NOTES

¹Select from the following electives: ART 145, ART 148, ART 270, ART 272, ART 273, ART 274, ART 275, ART 276

²Select from the following electives: EMS 105, EMS 110, EMS 111, EMS 112

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

PHYSICS OPTION – N014

A.S. in Arts and Science

CONTACT

Robert Greeney, Ph.D, (413) 552-2368, rgreeney@hcc.edu

PROGRAM OVERVIEW

The Physics Option prepares students for transfer to public or private four year colleges or universities with a major in physics. Physics majors can also transfer into programs in other areas of science and non science.

Physicists find employment opportunities in industry, government and education in fields, such as, physics, engineering, computer software, and business.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Physics for Engineering and Science Majors I (D)	PHS 111	MTH 113 previously or concurrently	4		
Physics for Engineering and Science Majors II (D)	PHS 112	PHS 111 and MTH 114 previously or concurrently	4		
PROGRAM REQUIREMENTS			12		
Calculus I	MTH 113	MTH 108 or adequate score on the Mathematics Placement Exam	4		
Calculus II	MTH 114	MTH 113	4		
Calculus III	MTH 213	MTH 114	4		
SUGGESTED ELECTIVES <i>(Sufficient to complete 60 credit graduation requirement)</i>			28		
Principles of Chemistry I <u>or</u> Inorganic Chemistry I	CHM 113 CHM 121	High School Algebra I or equivalent. High School Chemistry recommended.	4		
Principles of Chemistry II <u>or</u> Inorganic Chemistry II	CHM 114 CHM 124	CHM 113 or equivalent. High School Algebra I or equivalent recommended. CHM 113 or CHM 121	4		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Physics for Engineers and Science Majors III (Spring)	PHS 201	PHS 112; MTH 212 or MTH 213 previously or concurrently	4		
Social Science Elective (B)			3		
Linear Algebra	MTH 205	MTH 112 or MTH 114, previously or concurrently	3		
Differential Equations	MTH 214	MTH 212 or MTH 213 previously or concurrently	3		
Total Credits			60		

PHYSICS MASS TRANSFER OPTION – N016

A.S. in Arts and Science

CONTACT

Robert Greeney, Ph.D, (413) 552-2368, rgreeney@hcc.edu

PROGRAM OVERVIEW

The Physics Option prepares students for transfer to public or private four year colleges or universities with a major in physics. This option satisfies the requirements of the MassTransfer Program, facilitating transfer to four-year baccalaureate programs at state universi-

ties and the University of Massachusetts. Physicists find employment opportunities in industry, government and education in fields, such as, physics, engineering, computer software, and business.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Physics for Engineering and Science Majors I (D)	PHS 111	MTH 113 previously or concurrently	4		
Physics for Engineering and Science Majors I (D)	PHS 112	PHS 111 and MTH 114 previously or concurrently	4		
Calculus I (D)	MTH 113	MTH 108 or adequate score on the Mathematics Placement Exam	4		
PROGRAM REQUIREMENTS			8		
Calculus II	MTH 114	MTH 113	4		
Calculus III (Fall)	MTH 213	MTH 114	4		
SUGGESTED ELECTIVES			18		
Physics for Engineers and Science Majors III (Spring)	PHS 201	PHS 112 Co-requisite: MTH 213 previously or concurrently	4		
Linear Algebra	MTH 205	MTH 112 or MTH 114, previously or concurrently	3		
Differential Equations	MTH 214	MTH 212 or MTH 213 previously or concurrently	3		
Any 4-Credit BIO Course			4		
Any 4-Credit Physical Science Course (AST 110, CHM 113, CHM 121, ESC 120, etc.)			4		
Total Credits			62		

PRACTICAL NURSING CERTIFICATE – M064

CONTACT

Health and Natural Science(s) Division Office, (413) 552-2467

PROGRAM OVERVIEW

Nursing is the art and science of caring. Nursing is an interpersonal process based on values, beliefs and standards of the profession. Nursing is a profession which utilizes nursing knowledge and principles from the humanities and the biological, behavioral and social sciences to assist individuals, groups and communities in promoting, maintaining and restoring health.

The HCC Practical Nursing Program is approved by the Massachusetts Board of Registration in Nursing.

*** CRIMINAL OFFENSE RECORD INFORMATION ACT (CORI)

AND SEX OFFENDER REGISTRY INFORMATION (SORI)

STATE STATUTES THAT REGULATE LICENSURE AS A LICENCED PRACTICAL NURSE. ***

A CORI and a SORI are state statutes that regulate licensure as a licenced practical nurse. Prior to official enrollment and at the beginning of each semester in Nursing Programs, all accepted applicants and students must give permission for CORI and a SORI check. Some clinical agencies prohibit clinical participation if there is a finding when the CORI check is complete. Participation in planned clinical experiences throughout the curriculum is required; however, acceptance into the program does not guarantee placement in a clinical agency. All applicants and nursing students will be subject to the Criminal Record Information Act (CORI check), the Sex Offender Registry Information Act (SORI), Massachusetts General Laws, Chapter 6, Section 172-178, and Massachusetts General Laws, Chapter 18a, Section 1, et seq., and regulations promulgated pursuant to such statutes. Court record/past conviction may present a barrier to eligibility for licensure as a registered nurse (RN) or as a licensed practical nurse (LPN). Applicants with a court record/past conviction are advised to consult an attorney to determine eligibility to meet legal qualifications for nurse licensure in Massachusetts.

All applicants for licensure as RN or LPN must be of “good moral character” as required by the Massachusetts Board of Registration in Nursing statutes and regulations. The licensure applicant must have had no criminal convictions for a minimum of five (5) years before the date of submission of the license application and must have successfully completed all court ordered stipulations a minimum of one (1) year before the applicant will be considered for licensure by the Board (Massachusetts General Laws, Chapter 112, ss.74, 74A, and 76). Refer to www.state.ma.us/boards/rn/ for further information.

Students accepted to an educational program that prepares for licensure as a practical nurse should be aware that a court record may present a barrier to her/his ability to obtain licensure in the Commonwealth of Massachusetts and other jurisdictions in the United States.

The **Practical Nursing Certificate Program Application** for the PN Program can be found either by contacting the Admissions office (413) 552- 2321) or by going to the HCC website: www.hcc.edu. Students must achieve a minimum grade of C+ in all nursing, and laboratory sciences (A&P I and II) to remain in and graduate from this program.

All applicants must complete the NLN - PAX nursing entrance exam prior to submitting the nursing program application. See nursing application for details.

Drug Screening Policy

Several Health Care Facilities affiliated with the College’s Health Division are now requiring that students have a negative drug screen prior to beginning clinical experiences in their facility. In addition, a clinical facility may require the student to submit and pass random drug screening analysis in order to remain at that facility. Therefore, passing a drug screen will now be considered an essential function for all students participating in the Health Division Programs. If a student fails drug screening, retesting occurs within 24 hours of notification of results. Failure to pass a drug screen or refusal to submit to screening will make the student ineligible for clinical placement. Failure and/or refusal for drug screening are grounds for immediate removal from the Health Division Program. Students will be provided with the drug screen procedure during the orientation process to each course. All screening will be at the student’s own expense. The Work Connection at Holyoke Medical Center has been selected as the Division of Health’s exclusive laboratory for student drug testing. Appointments will be scheduled by the nursing department.

All applicants must meet the following requirements at the time of their application:

The **College Placement Testing (CPT)** must be completed within two years of application deadline demonstrating the following placement:

Math Proficiency/Placement: ≥ 82 in Algebra or completion of MTH 095 (Intermediate Algebra) or MTH 099 (Introductory and Intermediate Algebra) or comparable with a C- or better from an accredited college or university.

English Proficiency/Placement: ≥ 70 in Reading and ≥ 80 in Sentence portion of the CPT or ability to enter college-level coursework in English. English competency may also be demonstrated through college coursework (completion of English Composition I). **Please see the information packet for further details if English is not your first language or if you did not attend K through 12 in the U.S.**

Science Proficiency: Completion of Anatomy and Physiology I and Anatomy and Physiology II. Please note that the HCC Biology department requires the successful completion (C or better) of BIO 100, 103, or BIO 107 prior to taking Anatomy and Physiology. The pre-requisite may be waived by passing the Biology Challenge exam. Completion of Anatomy and Physiology I and Anatomy and Physiology II prior to the application deadline is strongly encouraged.

Applicants to the Practical Nursing Program are reminded that transportation is the responsibility of the student. Since clinical experiences are scheduled at various times, students must plan for and meet the irregular time requirements as well as for their own transportation. The Board of Registration in Nursing mandates a minimum number of hours for practical nursing students (CMR 244-6.00(4)(b) 4). Therefore, a student may be withdrawn from the program for failing to meet the attendance policy. Applicants currently working in a healthcare field can petition to lengthen the time that their laboratory science coursework is transferable from 7 to 14 years by completing the **Laboratory Science Petition Form** in the **Practical Nursing Certificate Program Application**. This application can be found either on-line at the HCC website under “Admissions”.

continues next page

Read the catalog online at www.hcc.edu/catalog

PRACTICAL NURSING CERTIFICATE – M064 *continued*

Please see the **Practical Nursing Certificate Program Application** for other important information concerning required documentation and requirements for admission.

The HCC Practical Nursing Program is approved by the Massachusetts Board of Registration in Nursing.

Program Outcomes

- 90% of the students graduating from the Practical Nursing Program will pass the NCLEX-RN exam on their first attempt.

- The graduates will rank in the 80th percentile or better in the NCLEX-RN State and National standing.
- 90% of graduates of the Nursing Education Program will be employed in nursing within one year of graduation.
- 85% of the graduate surveys returned will indicate that the Nursing Education Program was satisfactory in preparation for the entry into nursing practice in a variety of health care settings.
- 85% of employer surveys returned will indicate satisfaction with graduate performance in the workplace.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	Co-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS¹				44		
Human Anatomy and Physiology I	BIO 217	A "C" grade or better in, BIO 100, 103, 107 or a passing score on the challenge exam.		4		
Human Anatomy and Physiology II	BIO 218	BIO 217		4		
Introduction to Psychology	PSY 110	Eligibility for ENG 101		3		
Human Development	PSY 216	PSY 110		3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101		3		
Pharmacology I (Fall)	PHM 171	Acceptance into the PN program	NUR/PNR 170, NUR/PNR 172	1		
Pharmacology II (Spring)	PHM 181	NUR/PNR 170, NUR/PNR 172, PHM 171	NUR/PNR 180	1		
Fundamentals of Nursing (Fall)	PNR /NUR170	Acceptance into the PN program	NUR/PNR 172, PHM 171	9		
Role Development 1 (Fall)	PNR /NUR 172	Acceptance into the PN program	NUR/PNR 170, PHM 171	2		
Health Promotion and Maintenance Across the Life Span (Spring)	PNR /NUR 180	PNR 182, NTR 101	PHM 181	9		
Practical Nurse Role Development 2 (Intersession)	PNR 182	NUR/PNR 170, PHM 171, NUR/PNR 172		2		
Practical Nursing Acute & Complex Care (Summer)	PNR 190	PHM 181, NUR/PNR 180		3		
Total Credits				44		

NOTES

¹ All candidates must achieve a C+ or better in all NURSING and laboratory science courses (A&P I and II) to remain in the Program.

For additional information go to www.hcc.edu

PRE-VETERINARY AND ANIMAL SCIENCE OPTION – X031

A.S. in Veterinary & Animal Science

CONTACT

Walter Jaworski, D.V.M., (413) 552-2459, wjaworski@hcc.edu

PROGRAM OVERVIEW

Satisfies the first two years of the animal science or pre-veterinary curriculum of a four-year institution. This option is for students planning to become Doctors of Veterinary Medicine or working toward a degree in Animal Science.

Students are advised to check the requirements of the veterinary college(s) they are considering as requirements vary and can change.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
General Biology I: Introduction to Cell Functions (D) <u>or</u> General Biology for Non-Majors: The Processes of Life (D)	BIO 107 BIO 101	Eligibility for ENG 101 Eligibility for ENG 101	4		
General Biology II: Diversity of Life on Earth (D)	BIO 108	BIO 103 or BIO 107	4		
Social Sciences (B)			3		
Social Sciences (B)			3		
PROGRAM REQUIREMENTS			40		
Inorganic Chemistry I (Fall)	CHM 121	High School Algebra I or equivalent. High School Chemistry recommended.	4		
Inorganic Chemistry II (Spring)	CHM 124	CHM 113 or CHM 121	4		
Organic Chemistry I (Fall)	CHM 221	CHM 124, 114, or 102 with permission of instructor	4		
Organic Chemistry II (Spring)	CHM 222	CHM 221 or one previous semester of organic chemistry	4		
Microbiology	BIO 229	BIO 100 or BIO 103 or BIO 107 or BIO 110 or BIO 120	4		
Genetics	BIO 243	A grade of C or better in one of the following: BIO 100, 103, 110, 229 or 120	4		
College Algebra <u>or</u> Precalculus <u>or</u> Calculus I	MTH 104 MTH 108 MTH 113	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination MTH 108 or adequate score on the Mathematics Placement Exam	4		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Social Science Elective (B)			3		
Total Credits			60		

NOTES

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges

and universities by achieving the minimum grade point average and the HCC degree.

PROFESSIONAL CUSTOMER SERVICE CERTIFICATE – B085

CONTACT

Kristine Ricker Choleva (413) 552-2562, kcholeva@hcc.edu

PROGRAM OVERVIEW

The Professional Customer Service Certificate provides students with the background for positions in direct sales, telemarketing and customer service in both the wholesale and retail sectors.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			24-25		
Introduction to Business	BUS 101		3		
Computer Applications or Computer Concepts with Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Mathematics for Business Decisions	BUS 170	Eligibility for MTH 095 and one of the following: CSI 111 or BUS 115 or BUS 215	3		
Customer Service and Sales	MKT 227		3		
Principles of Marketing	MKT 240		3		
Public Speaking	COM 150		3		
Business Elective			3		
Business Elective ¹			3		
Total Credits			24-25		

NOTES

¹ Select from courses with the following prefixes: ACC, BUS, MGT, MKT.

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

PROGRAMMING OPTION – N056

A.S. in Computer Information Systems

CONTACT

Jon Ventulett, (413) 552-2276, jventulett@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Physics for Science and Engineering Majors I	PHS 111	Co-requisites: MTH 111 or MTH 113	4		
Physics for Science and Engineering Majors II	PHS 112	PHS 111 and MTH 114 (Previous or Concurrent)	4		
Social Science Elective (B) ¹			3		
Social Science Elective (B) ¹			3		
Social Science Elective (B)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
Pre-Calculus (D) <u>or</u> Discrete Mathematical Structures (D)	MTH 108 MTH 230	MTH 104 with a grade of C- or better, or adequate score on the Mathematics Placement Examination MTH 111 or MTH 113	3-4		
PROGRAM REQUIREMENTS			28		
Programming Fundamentals I	CSI 106	Eligibility for ENG 101 and MTH 095; CSI 111 previously or concurrently	4		
Computer Concepts with Applications	CSI 111	Eligibility for ENG 101	4		
Programming Fundamentals II	CSI 218	CSI 106, or permission of instructor; and CSI 111, and MTH 095 or adequate score on the Mathematics Placement Examination	4		
Java Programming I	CSI 254	CSI 106 and CSI 111	4		
Java Programming II	CSI 256	CSI 254	4		
Calculus I	MTH 113	MTH 108 or adequate score on the Mathematics Placement Exam	4		
Calculus II	MTH 114	MTH 113	4		
Total Credits			63-64		

PROGRAM OVERVIEW

This two-year program prepares students to enter the field of computer programming in an entry-level position, or transfer to a four-year Computer Science program.

Upon completion of this degree, students will be able to:

- Create computer applications in a variety of modern, high-level programming languages
- Work both in independent and group coding environments
- Create programs that conform to modern industry standards for computer science
- Model mathematic and scientific principles in a computer environment
- Adapt to the ever-changing field by mastering core programming concepts.

Students who complete this degree and wish to transfer to a state college will be able to take advantage of the Mass Transfer Compact, allowing for guaranteed admission, reduced cost, and smoother transfer of credits.

NOTES

¹ Recommend ECN 101 and 102

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

PSYCHOLOGY OPTION – H060

A.A. in Arts and Science

CONTACT

Rodney Dube, Ed.D, (413) 552-2334, rdube@hcc.edu

PROGRAM OVERVIEW

The Psychology Option is a transfer curriculum that prepares students for transfer to a four-year college with a major in psychology. The curriculum also benefits individuals who want to pursue professional careers in social work, human services, law enforcement, personnel administration, counseling, etc.

All psychology courses offered each semester address graduation competencies. Competencies currently required for graduation include:

- Effective Communication
- Critical Thinking
- Diversity
- Informational Literacy
- Quantitative Reasoning

NOTES

Only six non-Arts and Science credits may be taken towards an A.A. degree.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

¹ Most four-year colleges require two years of a foreign language. It is recommended that students complete or begin foreign language study at Holyoke Community College. **Students transferring**

Psychology courses are a source of information about areas within the discipline of psychology. Key terms and words, theories of human behavior, and different strategies and coping mechanisms are presented and explained. Students are taught to engage in critical thinking relative to research and human behavior. The influence on institutions, environment, biology, and people is discussed and analyzed.

to the University of Massachusetts, please note The College of Natural Science foreign language requirement: Satisfactory completion in high school or college of either a fourth-level foreign language course, or of a third-level course in one language and a second-level course in another language.

Depending on the course selection, 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

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PSYCHOLOGY OPTION – H060 *continued*

A.A. in Arts and Science

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Research Methods in Psychology (B)	PSY 222	PSY 110 and PSY 142 Co-requisite: PSY 200	3		
Social Science Elective (B)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Human Biology (D) <u>or</u> Human Anatomy & Physiology I (D)	BIO 111 BIO 217	A "C" grade or better in BIO 107 or a passing score on the challenge exam.	4		
Laboratory Science (D)			4		
Statistics for Psychology and the Social Sciences (D)	PSY 142	PSY 110, and MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
Information Literacy in Psychology	PSY 200	PSY 100, PSY 142 : Co-Requisite PSY 222	1		
PROGRAM REQUIREMENTS (Select 4 PSY courses)			12		
	PSY XXX		3		
	PSY XXX		3		
	PSY XXX		3		
	PSY XXX		3		
PROGRAM ELECTIVES (any 2 AS electives)			6		
			3		
			3		
GENERAL ELECTIVES ¹ (Sufficient to complete 60 credit graduation requirement)			6		
			3		
			3		
Total Credits			60		

RADIOLOGIC TECHNOLOGY – M096

A.S. in Radiologic Technology

CONTACT

Holly Martin-Peele, (413) 552-2460, hmartin@hcc.edu

PROGRAM OVERVIEW

The Radiologic Technology program is fully accredited by the Joint Review Committee on Education in Radiologic Technology.

Education in Radiologic Technology
20 North Wacker Drive
Suite 2850
Chicago, IL 60606-3182
Telephone: (312) 704-5300

PROGRAM MISSION & GOALS

The mission of the Radiologic Technology Program at Holyoke Community College is to graduate students with an Associate Degree in Science in the curriculum of Radiology Technology and provide the skills and knowledge necessary to enter medical imaging professions.

In addition the program supports the overall HCC mission as stated in the college catalog.

Goal 1: Students will demonstrate clinical competence.

Goal 2: Students will demonstrate effective communication skills.

Goal 3: Students will demonstrate critical thinking and problem solving skills.

Goal 4: Students will demonstrate a desire for professional growth and development.

Goal 5: The program will graduate competent Radiologic Technologists

***Criminal Offense Record Act (CORI), Sex Offender Registry Information (SORI), and National Requirements that Regulate Registration as a Registered Radiologic Technologist**

Radiologic Technology students are required to complete the CORI/SORI form once accepted to the program. A positive finding may prevent students from successfully completing the Radiologic Technology program due to clinical site requirements and/or may prohibit them from taking the National Registry Examination in Radiography.

Drug Screening Policy

Several Health Care facilities affiliated with the College's Health Division are now requiring that students have a negative drug screen prior to beginning clinical experiences in their facility. In addition, a clinical facility may require the student to submit and pass random drug screening analysis in order to remain at that facility. Therefore, passing a drug screen will now be considered an essential function for all students participating in the Health Division programs. If a student fails drug screening, retesting occurs within 24 hours of notification of results. Failure to pass a drug screen or refusal to submit to screening will make the student ineligible for clinical placement. Failure and/or refusal for drug screening are grounds for immediate removal from the Health Division program. Students will be provided with the drug screen procedure during the orientation process. All screening will be at the student's own expense. The Work Connection at Holyoke Medical Center has been selected as the Division of Health's exclusive laboratory for student drug testing.

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Requirements to Apply

All students interested in the Radiologic Technology program at Holyoke Community College are **required** to attend a Radiologic Technology information session within two years prior to applying to the program. Information sessions are held monthly and cover the selective admissions process and specific program information. Each session lasts approximately one hour and is conducted by a representative from the Radiologic Technology department. Radiologic Technology information sessions are held in the Frost building, room 309, from 2:00 - 3:15 p.m.* Check the website www.hcc.edu, click "Open Houses & Info Sessions" for upcoming program information sessions. ***Unless otherwise stated.**

All applicants must meet the following at time of application:

College Placement Testing (CPT): Must be completed within two years prior to application deadline demonstrating the following placement:

Math Proficiency/Placement: ≥ 82 in Algebra or completion of MTH 095 (Inter. Algebra) with a C- or better from an accredited college or university.

English Proficiency/Placement: ≥ 70 in Reading and ≥ 80 in Sentence Skills portion of the CPT or comparable, or ability to enter college-level coursework in English. English competency may also be demonstrated through college coursework (completion of College Composition I: Expository Writing and Research).

Science Proficiency: Completion of BIO 100, BIO 103, or successful completion of the challenge exam through the Biology department or the Testing Center. Completion or enrollment in A&P I or II with a "C+" or better. Enrollment in the Biology series at the time of application is strongly encouraged.

Essential Functions

The following essential functions will be necessary to successfully complete the Radiologic Technology program. In some cases, assessment and developmental courses may help students meet these standards. These essential functions may be performed with reasonable accommodation. This information is provided to allow the student to assess his (her) own capabilities.

To ensure patient safety, students throughout the program must be able to demonstrate skills in the following:

Physical

- Helping in positioning patients who may be comatose, paralyzed, or otherwise incapacitated, from wheelchairs and beds, to x-ray tables, and vice versa. This includes regular lifting, pulling and pushing of 40+ pounds.
- Handling and moving objects- use hands and arms in handling, installing, positioning, and moving materials, and manipulating things. Continuously reaching above shoulder level, frequently while holding objects.

RADIOLOGIC TECHNOLOGY – M096 *continued*

A.S. in Radiologic Technology

- Positioning, placing and moving equipment, i.e. image receptors, portable x-ray machines, and overhead equipment, as radiography requires positioning the x-ray tube hanging from the ceiling to various areas of the room.
- Response to signals such as sound and light from a distance of 15 feet, as control panels and exposure switches are located in rooms or paneled areas separate from the x-ray table on which patients are placed.
- Determination of differences in gradual changes in blacks, grays, purposes of judging images for technical quality.

Communicative

- Knowledge of the structure and content of the English language.
- Active listening– giving full attention to what others are saying, taking time to understand the points being made.
- Oral comprehension– the ability to listen and understand information and ideas presented through spoken words and sentences.
- Speech clarity– the ability to speak clearly so others can understand you.
- Speech recognition– the ability to identify and understand the speech of another person.
- Written expression– the ability to communicate information and ideas in writing so others will understand.
- Communicating with others– providing information to supervisors, co-workers, and physicians by telephone, in written form, e-mail, or in person.
- Interacting with computers– using computers and computer systems including hardware and software.
- Civility–polite, respectful, and professional behavior exhibited in classroom and clinical settings.

Cognitive

- The ability to fill syringes and enema bags, manipulate locks on equipment, and follow isolation procedures.
- Problem sensitivity– the ability to tell when something is wrong or is likely to go wrong.
- Control precision– the ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.
- Clinical decision making– gather, analyze and draw conclusions from data.

Emotional

- Dependability– requires being reliable, responsible and dependable, and fulfilling role obligations.
- Integrity– requires being honest and ethical.
- Cooperation– requires being pleasant with others, displaying a good-natured, cooperative attitude.
- Self control– requires maintaining composure, keeping emotions in check, controlling anger and avoiding aggressive behavior even in very difficult situations.
- Concern for others– requires being sensitive to others' needs and feelings.
- Initiative– requires a willingness to take on responsibilities and challenges.
- Stress tolerance– requires accepting criticism and dealing calmly and effectively with high stress situations.
- Adaptability/flexibility– requires being open to change and to considerable variety in the workplace.

RADIOLOGIC TECHNOLOGY – M096 *continued*

A.S. in Radiologic Technology

CONTACT

Holly Martin-Peele, (413) 552-2460, hmartin@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CO-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS				27		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.		3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher		3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101		3		
Social Problems (B) or Sociology of Race and Ethnicity (B)	SOC 214 SOC 220	SOC 110		3		
Human Anatomy and Physiology I (D)	BIO 217	A "C" grade or better in BIO 107 or BIO 100 (including lab) or BIO 103 or a passing score on the challenge exam.		4		
Human Anatomy and Physiology II (D)	BIO 218	BIO 217		4		
College Algebra (D)	MTH 104	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination		4		
Medical Terminology	HTH 114			3		
PROGRAM REQUIREMENTS (A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program)				43		
Patient Care (Fall)	RDL 115	Acceptance into program	RDL 132 and RDL 122	3		
Radiographic Technique and Control I (Fall)	RDL 122	MTH 095 with a C- or better or equivalent placement		3		
Radiographic Technique and Control II (Spring)	RDL 123	RDL 122	RDL 142	3		
Radiographic Positioning and Related Anatomy I (Fall)	RDL 132	Acceptance into the program.		3		
Radiographic Positioning and Related Anatomy II (Spring)	RDL 133	RDL 132 and BIO 217	RDL 142 and BIO 218	3		
Clinical Education and Lab Experience I (Fall)	RDL 141	Acceptance into program	RDL 115 and 132	2		
Clinical Education and Lab Experience II (Spring)	RDL 142	RDL 141	RDL 123 and 133	3		
Clinical Internship I (Winter Intersession)	RDL 158	RDL 141	RDL 123 and 133	1		
Radiologic Instrumentation (Spring)	RDL 190	RDL 123	RDL 242	3		
Advanced Procedures and Techniques I (Fall)	RDL 221	RDL 123	RDL 241	3		
Special Radiographic Studies and Contrast Media (Fall)	RDL 233	RDL 133 and BIO 218	RDL 241	3		
Advanced Imaging and Radiobiology (Spring)	RDL 234	RDL 221	RDL 242	3		
Clinical Education and Lab Experience III (Fall)	RDL 241	RDL 251 and BIO 218	RDL 221, 142 and 233	3		
Clinical Education and Lab Experience IV (Spring)	RDL 242	RDL 241 and 158	RDL 190 and 234	3		
Clinical Internship II (Summer)	RDL 251	RDL 142		4		
Total Credits				70		

RETAIL MANAGEMENT CERTIFICATE – B084

CONTACT

Kristine Ricker Choleva, (413) 552-2565, kcholeva@hcc.edu

PROGRAM OVERVIEW

The Retail Management Certificate prepares students for careers in retail sales, customer service, and entry-level management positions within retail stores. The certificate credits are fully transferable to all of the options within

the Marketing Management major. All of the courses within the Retail Management Certificate are available online

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			24		
Computer Applications	BUS 115		3		
Principles of Management or Human Resource Management	MGT 230 MGT 231		3		
Principles of Retailing	MKT 110		3		
Principles of Advertising	MKT 226		3		
Customer Service and Sales	MKT 227		3		
Principles of Marketing	MKT 240		3		
Business Elective ¹			3		
Business Elective ¹			3		
Total Credits			24		

NOTES

¹ Select from: ACC, BUS, MGT, MKT.

Depending on the course selection 100% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

SECONDARY EDUCATION OPTION – M020

A.A. in Arts and Science

CONTACT

April Graziano, (413) 552-2016, agraziano@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35		
College Composition I: Expository Writing and Research ¹	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature ¹	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Adolescent Psychology (B)	PSY 218	PSY 110	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
History of the United States I (C)	HIS 111		3		
History of World Civilization I (C) (Fall)	HIS 103		3		
Humanities Elective (C)			3		
General Biology for Non-Majors: The Processes of Life (D)	BIO 101	Eligibility for ENG 101	4		
Laboratory Science (D) ²			4		
Number Systems (D)	MTH 125	MTH 095 with a grade of D - or better or adequate score on the Mathematics Placement Examination	3		
PROGRAM REQUIREMENTS			18		
Education in America	EDU 100		3		
Child Development and Behavior	EDU 104	Eligibility for ENG 101	3		
Children with Disabilities in the Educational Setting	EDU 208	EDU 104 with a grade of C or better and ENG 101 eligibility	3		
World Regional Geography	GEO 110		3		
(Select one from the following)					
Music Fundamentals or Introduction to Classical Music or Introduction to World Music or Introduction to Jazz or Introduction to Theater	MUS 100 MUS 110 MUS 106 MUS 140 THE 100		3		
(Select one from the following)					
Basic Design or Introduction to Art History or Introduction to Theater	ART 123 ART 131 THE 100		3		

PROGRAM OVERVIEW

The program is designed for students interested in transferring to four-year schools. The program is for students interested in teaching middle school or high school with content area teaching licenses for grades 5-8, 8-12, or 5-12.

SECONDARY EDUCATION OPTION – M020 *continued*

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES <i>(Select 12 credits from ONE AREA listed below.)</i>			12		
			3-4		
			3-4		
			3-4		
			3-4		
Art, 121, 132, 140, 231, 232, 241, 242, 261, 262 Biology, 108, 110, 229, 120, 212, 230, 243 Chemistry, CHM 101/102, PHS 101, 102 English, 211, 212, 215, 216, 217, 224, 235		Gen. Science, AST 110, CHM 101/102, ESC 120, PHS 101, 102 History, 104, 112, all 200-level courses Math, 108, 113, 114, 135, 142, 205, 211, 212, 214, 230 Music, all 200-level courses, except 231 and 232			
Total Credits			65		

NOTES

Students must achieve a minimum grade of "C" in all EDU prefix courses in order to graduate from this program.

¹ Overall minimum GPA 2.7 for both ENG course requirements for WSU

² Select one Laboratory Science from the following: AST 110, ESC 110, ESC 120, ENV 120.

****Criminal Offense Record Act (CORI), and Sex Offender Registry Information (SORI)****

Students enrolled in EDU courses may be subject to a CORI/SORI check and review pursuant to the Criminal Record Information Act, Massachusetts General Laws, Chapter 6, Section 172-178, and Massachusetts General Laws, Chapter 18a, Section 1, et seq., and regulations promulgated pursuant to such statutes. Applicants with a court record/past conviction may be unable to participate in the Education Program. The College policy can be found in the Student Policy Guide.

SOCIOLOGY OPTION – H070

A.A. in Arts and Science

CONTACT

Raymond O'Connor, Ed.D, (413) 552-2340, roconnor@hcc.edu

PROGRAM OVERVIEW

The Sociology Option is intended for students desiring a solid liberal arts education as well as those interested in transferring to four-year colleges in the social sciences. Students select courses from areas such as family, religion, government, the environment, social changes, social deviance, social problems, substance abuse, social inequality, diversity, disability, race, class and gender.

The Department of Sociology at Holyoke Community College seeks to provide a thorough grounding in the historical and theoretical development

of the field of sociology and to give students the tools to make this knowledge relevant to the world around them. The program is designed to prepare students for professional careers in a number of arenas, including research, education, social work, human services, law enforcement, probation and corrections, government, non-profit organizations, labor relations, business management, personnel administration and market analysis.

The Sociology program provides the opportunity

to combine a liberal arts education with a unique focus on the study of human societies including social dynamics, institutions, diversity, and inequality. Through its use of scientific methods and systematic theory, Sociologists seek to identify and explain the underlying patterns of social relations. This knowledge base allows students to gain insights into and challenge assumptions about the fundamental elements of human systems behavior. Sociologists are particularly concerned with understanding diversity in our social world and addressing inequality.

NOTES

¹ Only six non-Arts and Science credits may be taken towards an A.A. degree.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

² Some four-year colleges require two years of a foreign language. It is recommended that students complete or begin foreign language study at Holyoke Community College.

Depending on the course selection, 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

SOCIOLOGY OPTION – H070 *continued*

A.A. in Arts and Science

CONTACT

Raymond O'Connor, Ed.D, (413) 552-2340, roconnor@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
Social Science Elective (B)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Statistics for Psychology and the Social Sciences (D)	PSY 142	PSY 110, and MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
PROGRAM REQUIREMENTS <i>(Select any 5 SOC designated courses)</i>			15		
	SOC XXX				
	SOC XXX				
	SOC XXX				
	SOC XXX				
	SOC XXX				
PROGRAM ELECTIVES ^{1, 2} <i>(Sufficient to complete 60 credit graduation requirement)</i>			10		
			3		
			3		
			3		
			1-3		
Total Credits			60-62		

SOLAR ENERGY CERTIFICATE PROGRAM - H088

CONTACT

Kate Maiolatesi, (413) 552-2462, kmaiolatesi@hcc.edu

PROGRAM OVERVIEW

To prepare for employment in the clean energy sector, students will learn about all types of sustainable energy sources, including solar, wind, biomass and geothermal. They will also examine solar energy in depth and learn how to use specialized equipment to monitor energy usage. Hands-on experience will be provided in the internship as well as the labs to acquaint the student with the necessary equipment and techniques. Students should be ready for careers as energy auditors, solar installers, solar system sales associates and will be equipped to work in small solar companies. Students can apply these credits to Clean Energy or Sustainability Studies Degrees as well as being prepared to transfer to a four-year program in clean energy.

Upon completion of this program the student will be able to:

- Understand the basics of solar thermal and solar photovoltaic systems.
- Understand design and performance parameters associated with PV and solar thermal systems.
- Understand basic limitations, failure modes, and life cycles of solar systems.
- Demonstrate proficiency in the use of solar technology.
- Demonstrate proficiency in calculations for the design of solar systems.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			15		
Introduction to Clean Energy Resources	SUS 102		4		
Energy Efficiency and Conservation Methods	SUS 103		4		
Introduction to Solar Energy	SUS 104		4		
Renewable Energy Technology Internship	SUS 109	SUS 104 or SUS 105	3		
PROGRAM ELECTIVE			3		
ESL for Renewable Energy Technology (if needed)	ESL 153	ESL 141 or ESL Placement Test	3		
Total Credits			15-18		

SPORT MANAGEMENT – B096

A.S. in Sport Management

CONTACT

John Donnellan, (413) 552-2146, jdonnellan@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			38		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Macroeconomics (B)	ECN 101	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Microeconomics (B)	ECN 102	ECN 100 with a grade of C- or better or eligible for MTH 095	3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Statistics (D)	MTH 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
Applied Calculus (D)	MTH 162	MTH 104 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
PROGRAM REQUIREMENTS			23-24		
Principles of Accounting I	ACC 111	Eligibility for MTH 085	4		
Principles of Accounting II	ACC 112	ACC 111	4		
Computer Applications <u>or</u> Computer Concepts with Applications	BUS 115 CSI 111	Eligibility for ENG 101	3-4		
Principles of Management	MGT 230		3		
Principles of Marketing	MKT 240		3		
Introduction to Sport Management	SPO 110		3		
Sport Law (Spring)	SPO 211		3		
Total Credits			61-62		

PROGRAM OVERVIEW

This degree prepares students to transfer to a four-year baccalaureate institutions. Upon graduating from this program, students will be able to define the sport and recreation industry, interpret accounting data and analyze financial statements, apply the marketing concept, appreciate the role of law in the sport and recreation industry, define traditional functions of management and their contribution to strategic planning and calculate and quantify data to make business decision.

NOTES

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges and universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Students planning to transfer to other four-year institutions should check with either their academic advisor or the Coordinator of Transfer Affairs in selecting their courses.

Minimum 3.0 GPA needed for UMass, Amherst.

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

STRENGTH AND CONDITIONING SPECIALIST CERTIFICATE – M107

CONTACT

Patti Mantia, Ed.D.,(413) 552-2449, pmantia@hcc.edu

PROGRAM OVERVIEW

The Strength and Conditioning Specialist Certificate is designed for the student who wants to specialize in the area of strength and conditioning for health fitness and sports and/or prepare for national certification in strength training. Upon completion of this program, the student will be able to:

- Define the roles and responsibilities of the strength and conditioning coach
- Describe and discuss human movement from

physiological and biomechanical perspectives

- Define the components of muscular strength, endurance and power as related to motor performance and functionality
- Define ACSM (American College of Sports Medicine) guidelines for fitness
- Describe and administer fitness assessments for each of the components of fitness and relate to program design

- Discuss exercise programming considerations for populations with medical concerns and demonstrate basic emergency care procedures
- Define and employ leadership competencies such as effective interviewing skills and motivational techniques

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			15		
Standard First Aid and Personal Safety/CPR <u>or</u> Sports First Aid	HFN 103 HFN 104	Students can not receive credit for both HFN 103 and HFN 104	1		
Sports Supplementation	HFN 106		1		
Tools for Resistance Training	HFN 129		1		
Introduction to Coaching <u>or</u> Personal Fitness Training	HFN 110 HFN 183		3		
Principles and Practices of Strength Training	HFN 185	HFN 183 or HFN 134 or BIO 217	3		
Professional Fitness Seminar/Internship ¹	HFN 190	with permission of instructor	3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
PROGRAM ELECTIVES			9		
HFN and/or NTR elective			3		
HFN and/or NTR elective			3		
HFN Elective			1		
HFN Elective			1		
HFN Elective			1		
Total Credits			24		

NOTES

¹This course should be taken at the end of the program.

SUPERVISION AND LEADERSHIP IN THE HELPING PROFESSIONS – H020

CONTACT

Jackie Griswold, Ed.D., (413) 552-2333, jgriswold@hcc.edu

PROGRAM OVERVIEW

Direct support staff in the human service field are often promoted into supervisory and leadership positions with no direct experience or education to support their success in that role. The human service industry has recognized a need to provide appropriate education to individuals in supervisory and leadership roles in order to promote their success, and the success of the staff they supervise. Human service supervisors work in a variety of settings, such as group homes, vocational programs, after school programs, nursing

homes, shelters for the homeless, and correctional facilities. The populations served may include individuals with mental retardation and developmental disabilities, individuals with mental health issues, children and youth, the elderly, individuals with substance abuse issues, individuals who are homeless, and victims of domestic violence.

This 24-credit certificate is appropriate for staff in human service programs who have been promoted into supervisory positions and want to

upgrade their skills and knowledge or those individuals who aspire to move into a supervisory and leadership role.

The Certificate is designed to strengthen writing, problem-solving, and critical thinking skills by including readings, assignments, and discussion of the daily experiences, challenges, and concerns of front line supervisors. The courses in the Certificate can be transferred into the AS in Human Services Program.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			18		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
Introduction to Psychology	PSY 110	Eligibility for ENG 101	3		
Introduction to Human Services	HSV 113	Eligibility for ENG 101	3		
The Helping Relationship	HSV 124	HSV 113 and PSY 110	3		
Human Service Administration	HSV 225	HSV 113 or permission of instructor	3		
Supervisory Relationships in the Helping Professions	HSV 226	HSV 113 and Eligibility for ENG 101	3		
PROGRAM ELECTIVES <i>(Select 2 from the following courses)</i>			6		
Understanding Diversity and Valuing Similarities	ANT 114		3		
Conflict Resolution and Mediation	SSN 120		3		
Any course with an HSV, DVD, or GRT designation			3		
Any course with an HSV, DVD, or GRT designation			3		
Any course with an HSV, DVD, or GRT designation					
Total Credits			24		

NOTES

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

CORI (Criminal Offender Record Information) and SORI (Sexual Offender Registry Information) background checks may be required prior to field work and practicum placement and will be conducted by specific agencies in accordance with state regulations. CORI and SORI results are confidential.

SUSTAINABLE AGRICULTURE – H083

A.A. in Arts and Science

CONTACT

Kate Maiolatesi, (413) 552-2462, kmaiolatesi@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			32-33		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Ecopsychology (B) (Fall)	PSY 202	PSY 110	3		
College Algebra (D) <u>or</u> Statistics (D)	MTH 104 MTH 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement	3-4		
American Environmental History (C) (Spring)	HIS 225	Eligibility for ENG 101	3		
Sustainable Agriculture I (D) (Spring)	HRT 112		4		
Sustainable Agriculture II (D) (Fall)	HRT 212		4		
Humanities Elective (C)			3		
Humanities Elective (C)			3		
PROGRAM REQUIREMENTS			14		
Ecological Economics (Spring)	ECN 120	Any ECN course with a passing grade of C- or eligible for MTH 095, or by permission of instructor.	3		
Soil and the Environment	ENV 138		4		
Introduction to Sustainability Studies (Fall)	SUS 101		4		
World Food Habits	SUS 112		3		
SUGGESTED ELECTIVES <i>(Select 13-14 from listing below; Sufficient to complete 60 credit graduation requirement)</i>			13-14		
Culinary Foundations	CUL 100	Eligibility for MTH 085; ENG 095 with a grade of C- or better or adequate score on the reading comprehension portion of the placement examination. CUL 115	3		
Environmental Literature (Fall)	ENG 203	ENG 102	3		
Environmental Geology	ENV 137		4		
Current Topics in Environmental Studies	ENV 150		3		
Introduction to Nutrition	NTR 101	Eligibility for ENG 101	3		
Environmental Ethics (Spring)	PHI 140		3		
Total Credits			60		

PROGRAM OVERVIEW

As concerns grow about what to eat and where our food comes from, we need to be more informed about what our food choices are and how we can ensure the safety of our food. This program will inform students about the political and economic considerations about our local and global food systems, as well as the scientific principles of the sustainable agricultural practice of growing food according to ecological principles and therefore protecting the environment while providing food, and how the diversity and stability of an agro ecosystem are superior to conventional agricultural systems. Students will be ready for careers in sustainable farming, participation in setting agricultural policy, food system planning, food related enterprises and food science, as well as transfer to area four-year colleges' agriculture programs.

Upon completion of this program the student will be able to:

- Understand the difference between industrialized, traditional, conventional, organic and permaculture farming practices.
- Understand how environmental factors including light, temperature, humidity and soil pH contribute to the health of crops.
- Understand how our food system contributes to the health of our entire ecosystem.
- Understand how our food choices contribute to our own health as well as the health of our planet.
- Demonstrate proficiency in growing food crops.

NOTES

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges and universities.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information. MassTransfer also will grant students automatic

acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

SUSTAINABILITY STUDIES – H084

A.A. in Arts and Science

CONTACT

Kate Maiolatesi, (413) 552-2462, kmaiolatesi@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Ecopsychology (B) (Fall)	PSY 202	PSY 110	3		
Ecological Economics (B) (Spring)	ECN 120	Any ECN course with a passing grade of C- or eligible for MTH 095, or by permission of instructor.	3		
American Environmental History (C) (Spring)	HIS 225	Eligibility for ENG 101	3		
Environmental Ethics (C) (Spring)	PHI 140		3		
Environmental Literature (C) (Fall)	ENG 203	ENG 102	3		
College Algebra (D) ¹ or Statistics (D) or Statistics for Psychology and the Social sciences (D)	MTH 104 MTH 142 PSY 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement PSY 110, and MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination.	3-4		
Introduction to Sustainability Studies (D)	SUS 101		4		
Laboratory Science Elective (D)			4		
SUGGESTED ELECTIVES <i>(Select 6-8 from listing below; Sufficient to complete 60 credit graduation requirement)</i>			24-25		
Visual Fundamentals	ART 110		3		
Conservation Biology	BIO 130		3		
Ecology	BIO 230	A semester course in college biology or environmental science	3		
Climate Change	BIO/ENV 214	One semester of any laboratory science	3		
Fundamentals of Video	EMS 110		3		
Professional Speaking	COM 107	COM 150	3		
Introduction to Electronic Media	EMS 111		3		
Introduction to Communication	COM 121		3		
Public Speaking	COM 150		3		
Introduction to Economics	ECN 100		3		
Advanced Academic Writing	ENG 218	ENG 102	3		

PROGRAM OVERVIEW

The Sustainability Studies degree option prepares students to pursue careers in sustainable living, in fields such as health and safety, energy and climate change, environmental research and engineering, public policy and law, resource conservation, corporate social responsibility, urban planning, advocacy and political science. The program provides a cross-disciplinary approach to learning that enables students to integrate skills and knowledge from multiple sources and experiences, and apply their understanding to personal, professional, and civic life. Transfer opportunities may exist with regional colleges and universities.

Upon completion of this program the student will be able to:

- Understand and experience a sense of community.
- Develop an awareness of the necessity for humans to live in tune with the environment.
- Become familiar with the basic scientific concepts and principles in relation to ecological thinking.
- Critically examine environmental issues and formulate a position based on science.

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Read the catalog online at www.hcc.edu/catalog

SUSTAINABILITY STUDIES – H084 *continued*

A.A. in Arts and Science

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
SUGGESTED ELECTIVES (Continued)					
Principles of Environmental Science I	ENV 120		4		
Natural History of New England	ENV 124		4		
Environmental Geology	ENV 137		4		
Soil and the Environment	ENV 138		4		
Principles of Environmental Science II	ENV 140		4		
Principles of Environmental Site Assessment (Spring)	ENV 230	ENV 120, ENV 140, ENV 137 concurrently	3		
Aquatic Ecology and Pollution	ENV 253	One semester of environmental science or biology	4		
Intro to Geology – Earth Processes	ESC 120		4		
Introduction to Oceanography	ESC 130		4		
Sustainable Agriculture I (Spring)	HRT 112		4		
Sustainable Agriculture II (Fall)	HRT 212		4		
Introduction to World Music	MUS 106		3		
Ethics	PHI 120		3		
Introduction to Political Science	POL 101	Eligibility for ENG 101	3		
U. S. National Government	POL 110		3		
State and Local Government	POL 120		3		
Educational Psychology	PSY 220	PSY 110	3		
Social Psychology	PSY/SOC 210	PSY 110 or SOC 110	3		
Introduction to Sociology	SOC 110	Eligibility for ENG 101	3		
Sociology of Race and Ethnicity	SOC 220	SOC 110	3		
Soul of a Citizen: Topics in Community Services Learning	SSN 104	Eligibility for ENG 101	3		
Conflict Resolution and Mediation	SSN 120		3		
Introduction to Clean Energy Resources	SUS 102		4		
Energy Efficiency & Conservation Methods	SUS 103		4		
Intro to Solar Energy	SUS 104		4		
Intro to Wind Energy	SUS 105		4		
Renewable Energy Technology Internship	SUS 109	SUS 104 or SUS 105	3		
World Food Habits	SUS 112		3		
Fundamentals of Acting	THE 110		3		
Total Credits			60-61		

NOTES

* Only six non-Arts and Science credits may be taken towards an A.A. degree.

¹ Choice depends on transfer institution's preference. Credit will not be given for both MTH 142 and PSY 142 because of the similar content.

Transfer opportunities exist with integrated programs at numerous colleges and universities including the following regional institutions:

1. Westfield State University Interdisciplinary Environmental Science Major
2. Massachusetts College of Liberal Arts Multidisciplinary Environmental Studies Major
3. University of Massachusetts at Amherst – Sustainability Studies
4. University of Vermont Integrated Environmental Studies Program
5. Amherst College Environmental Studies Program

No offered agreements are in place, these are only possible schools and programs.

For those students interested specifically in Environmental Science, please refer to the Environmental Science Program.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 50% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

THEATER ARTS - H011

A.A. in Arts and Science

CONTACT

Timothy Cochran, (413) 552-2484, tcochran@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			35-36		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Public Speaking (C)	COM 150		3		
Introduction To Theater (C)	THE 100		3		
Humanities Elective (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Mathematics (D)			3-4		
PROGRAM REQUIREMENTS			20		
Fundamentals of Acting	THE 110		3		
Stagecraft I	THE 124		4		
Stagecraft II	THE 125	THE 124 or permission of the instructor	4		
Theater History: Classical Theater	THE 212		3		
Voice and Diction	THE 218		3		
Playscript Analysis	THE 240	ENG 101	3		
PROGRAM ELECTIVES <i>(Select 2 from the following courses)</i>			6		
Movement for Actors	THE 120		3		
Acting II	THE 210	THE 110	3		
Theater History: Modern Drama	THE 213		3		
Creative Writing for the Theater	THE/ENG 227	ENG 102	3		
Topics in Theater	THE/ENG 235	ENG 102, previously or concurrently	3		
Shakespeare	THE 237	ENG 102	3		
Total Credits			61-62		

PROGRAM OVERVIEW

The theater option is committed to providing students with broad-based training and study in theater arts including foundation classes in acting, technical theater and dramaturgy. The faculty at HCC is committed to providing students with a practical application of study by collaborating in the production of various theater performances on campus.

The program prepares students for transfer to a 4-year institution, and is suited for students who wish to pursue careers in the field of:

- Theater
- Education
- Broadcasting
- Journalism
- Advertising
- Public Relations
- Business
- Politics
- Communication
- Photography
- Film
- Sales/Marketing
- Government Relations

NOTES

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

UNIVERSITY WITHOUT WALLS OPTION – C008 *

A.S. in Liberal Studies

CONTACT

Idelia Smith, (413) 552-2228, ismith@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			39		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Sciences (B) ¹			3		
Social Sciences (B) ¹			3		
Social Sciences (B) ¹			3		
Art/Music Elective (C)			3		
History Elective (C)			3		
Literature Elective (C)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Topics in Mathematics (D)	MTH 155	MTH 095 with a grade of D- or better or equivalent score on the Mathematics Placement Examination	3		
Computer Concepts with Applications	CSI 111	Eligibility for ENG 101	4		
PROGRAM REQUIREMENTS			6		
Advanced Academic Writing	ENG 218	ENG 102	3		
Public Speaking	COM 150		3		
PROGRAM ELECTIVES			6		
Cultural Anthropology <u>or</u> World Politics	ANT 101 POL 125		3		
Cultural Diversity <u>or</u> History Elective (C) <u>or</u> Literature Elective (C)	ANT 114 HIS XXX ENG XXX		3		
GENERAL ELECTIVES			13		
			3-4		
			3-4		
			3-4		
			3-4		
Total Credits			64		

PROGRAM OVERVIEW

Students planning to transfer to the University of Massachusetts, University Without Walls degree program. This program meets Mass Transfer requirements which guarantees transfer to all state colleges and universities. This option was designed to prepare the student to undertake the development of a comprehensive portfolio of written documentation reflecting the student's professional work that will be evaluated for college credit by the University.

NOTES

¹ PSY 110 and SOC 110 are recommended.

*The A.S. concentration in Liberal Arts is one path to University Without Walls but other degree options can be pursued as well.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 80% of this program can be completed online. Go to www.hcc.edu/catalog for further information.

VETERINARY TECHNICIAN OPTION – X036

A.S. in Veterinary & Animal Science

CONTACT

Walter Jaworski, D.V.M., (413) 552-2459, wjaworski@hcc.edu

PROGRAM OVERVIEW

Trains paraprofessional personnel who will assist veterinarians as technicians or serve in a variety of positions in animal research laboratories, state animal shelters, or other facilities where animals are kept. All students must achieve a minimum grade of "C" in all VET and BIO prefix courses in order to remain in and graduate from the curriculum.

The Veterinary Technician Program has selective admissions with a deadline of **February 1** for admission to the following Fall. **Biology 107** with a "C" or better and eligibility to take college math are requirements for admission.

Program Outcomes

- Demonstrate knowledge in the care and handling of animals, in the basic principles of normal and abnormal life processes, and in routine laboratory and animal health care procedures.
- Assist in the practice of veterinary medicine under the direction and supervision of veterinarians.
- Exhibit knowledge of underlying principles of animal care, normal values, and basic disease processes of the different species
- Apply appropriate techniques in performing animal restraint and care
- Utilize, operate, and maintain medical instruments, and equipment
- Exhibit knowledge of pharmacological substances and maintenance of a pharmacy. Fill, properly calculate, label, and dispense prescription medication.
- Prepare and assist in surgery, patient monitoring, and demonstrate knowledge of common surgical procedures
- Calculate and administer anesthetics. Maintain anesthesia and monitor the recovery of patients.

Attendance at an Information Session is also required. Contact Admissions for more information.

Rabies vaccination is strongly recommended but not required and observation in a veterinary facility is also recommended but not required for admission. One class is admitted per year beginning in the fall. Upon completion of the Veterinary Medical Technology Program the student will be able to meet the following objectives with the proficiency expected of a Veterinary Technician at the job entry level.

- Collect laboratory samples and specimens through venipuncture, fecal collection, cystocentesis, and skin scraping. Use appropriate technique for collection, handling, and identification of specimens
- Follow oral and written instructions
- Report results and keep accurate records according to established procedures
- Learn to deal appropriately with clients
- Perform radiographic imaging techniques
- Retain composure and efficiency under stress.
- Demonstrate initiative - when work is done, offer assistance for helping with other tasks.
- Abide by the ethics of all medical professionals in the matter of confidential information regarding patients and test results
- Demonstrate professional attitudes in the area of: appearance and hygiene, attendance, punctuality, telephone technique, acceptance of constructive criticism, and dealing with people.
- Admissions requirements are changing, students interested in this program should contact the Admissions Department, 552-2321, for details.

VETERINARY TECHNICIAN OPTION – X036 *continued*

A.S. in Veterinary & Animal Science

CONTACT

Walter Jaworski, D.V.M., (413) 552-2459, wjaworski@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Anatomy and Physiology of Domestic Animals I (Fall)	VET 133	A grade of C or better in BIO 100 or a passing grade on the challenge exam	4		
Anatomy and Physiology of Domestic Animals II (Spring)	VET 134	VET 133	4		
Social Sciences (B)			3		
The History of Animal Advocacy in the United States, 1865-Present (C)	HIS 121		3		
PROGRAM REQUIREMENTS			49		
Math That Matters: Drugs and Dosages	MTH 130	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement	3		
Principles of Animal Health Care (Fall)	VET 140		1		
Veterinary Medical Terminology (Fall)	VET 145		1		
Veterinary Practice Management (Spring)	VET 147	VET 282	3		
Animal Diseases (Spring)	VET 153	A grade of C or better in VET 133 and VET 134; or BIO 103 or BIO 100 and BIO 229	4		
Veterinary Laboratory Procedures I (Spring)	VET 160	VET 133, VET 140, VET 145; Pre-/Co-Requisite: VET 134	4		
Veterinary Laboratory Procedures II (Fall)	VET 165	VET 134, and VET 160	4		
Veterinary Seminar (Spring)	VET 202	VET 165 and 247	1		
Animal Nursing I (Fall)	VET 247	VET 134, VET 160 Pre-/Co-Requisite: VET 165 and MTH 130	4		
Animal Nursing II (Spring)	VET 248	VET 247 and VET 264	4		
Clinical Competency for Veterinary Technician (Spring)	VET 258	VET 247, and VET 261; Pre-/Co-Requisite: VET 248 and VET 270	2		
Animal Facility Management (Fall)	VET 261	VET 134, VET 160	1		
Exotic Pets (Fall)	VET 263	A grade of C or better in BIO 100	2		
Veterinary Pharmacology (Fall)	VET 264	MTH 130 and VET 134	4		
Veterinary Radiography (Spring)	VET 265	VET 140 and VET 145; Pre-/Co-Requisite: VET 134	2		
Reproduction in Domestic Animals (Fall)	VET 268	A grade of C or better in BIO 100	2		
Clinical Rotation for Veterinary Technician (Spring)	VET 270	VET 247, and VET 265; Pre-/Co-Requisite: VET 248	2		
Cooperative Education for Veterinay Technicians I (Summer)	VET 282	VET 134 and VET 160 and documentation of health insurance	2		
Cooperative Education for Veterinay Technicians II (Summer)	VET 283	VET 153 and 248 and documentation of health insurance	3		
Total Credits			69		

VISUAL ART PROGRAM – H031

A.S in Visual Art

CONTACT

Felice Caivano, (413) 552-2193, fcaivano@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			26-27		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Social Sciences (B)			3		
Social Sciences (B)			3		
Social Science (B)			3		
Laboratory Science (D)			4		
Laboratory Science (D)			4		
Math (D)			3-4		
PROGRAM REQUIREMENTS			21		
Basic Drawing	ART 121		3		
Drawing Composition	ART 122	ART 121	3		
Basic Design I	ART 123		3		
Basic Design II	ART 124	ART 123	3		
Introduction to Art History I	ART 131	ENG 101, previously or concurrently	3		
Introduction to Art History II	ART 132	ENG 101, previously or concurrently	3		
Any History or Art History ¹			3		
PROGRAM ELECTIVES			12-13		
ART Elective			3		
ART Elective			3		
ART Elective			3		
ART Elective			3		
General elective sufficient to complete 60 credits			1		
Total Credits			60		

PROGRAM OVERVIEW

The Visual Art program prepares students for transfer leading to a BA or BFA degree and continued studio practice. Students successfully completing the Visual Art program will produce a portfolio of two- and three-dimensional artwork that demonstrates an understanding of form and content. This will include effective use of the elements and principles of art making to convey the dynamics of figure/ground relationships, expression of volumetric structure, and spatial qualities of value and color, among other skills and concepts. Students will also develop strategies for visual communication and personal artistic expression. In Art History classes, students will look intensely at works of art and consider their cultural and social significance.

Upon completion of the program, students will:

- Experience a broad range of practices and materials
- Attain skills in basic art making techniques
- Acquire an understanding of visual concepts
- Gain fluency in the language of art

NOTES

¹ Select ART 145, 147, 150, 151, 156, 235, or any HIS.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

Depending on the course selection 50% of this program can be completed online.

WIND ENERGY CERTIFICATE PROGRAM - H089

CONTACT

Kate Maiolatesi, (413) 552-2462, kmaiolatesi@hcc.edu

PROGRAM OVERVIEW

To prepare for employment in the clean energy sector, students will learn about all types of sustainable energy sources, including solar, wind, biomass, and geothermal. They will also examine wind energy in depth and learn how to use specialized equipment to monitor energy useage. Hands-on experience will be provided in the internship as well as the labs to acquaint the student with the necessary equipment and techniques.

Upon completion of this program the student will be able to:

- Understand wind turbines, their design, and history.
- Understand and use fluid dynamic flow concepts such as lift, drag, Kutta

condition, boundary layers, total pressure, blade element theory, lift/drag polars, control volume theory and Betz limit.

- Demonstrate proficiency of basic fluid dynamic problems using control volume theory to develop practical solutions.
- Understand design and performance parameters associated with wind and water turbines.
- Understand basic limitations, failure modes, and life cycles of wind turbines.

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM REQUIREMENTS			15		
Introduction to Clean Energy Resources	SUS 102	MTH 075 with a grade of C- or better or adequate score on the math placement exam, and ENG 101 eligible or ESL 153.	4		
Energy Efficiency and Conservation Methods	SUS 103		4		
Introduction to Wind Energy	SUS 105		4		
Renewable Energy Technology Internship	SUS 109	SUS 104 or SUS 105	3		
PROGRAM ELECTIVE			3		
ESL for Renewable Energy Technology (if needed)	ESL 153	ESL 141 or ESL Placement Test	3		
Total Credits			15-18		

WOMEN'S STUDIES OPTION – H071

A.A. in Arts and Science

CONTACT

Nichole Hendricks, (413) 552-2175, nhendricks@hcc.edu

PROGRAM OVERVIEW

The Women's Studies Option prepares students for jobs in a range of fields, and for transfer to four-year baccalaureate programs. Through an interdisciplinary approach, this option provides students the opportunity to think critically about gender in diverse contexts.

Students completing coursework in this degree option will be able to:

- Critically examine the experiences of women in various social, historical, and cultural contexts
- Demonstrate an awareness of gendered experiences in diverse cultures and across time, examining the ways in which race, social class, sexuality, and ethnicity intersect with gender.

- Understand and apply fundamental concepts in feminist scholarship
- Demonstrate the ability to communicate effectively through writing, analysis, research, leadership and organization
- Connect theory to practice through activism, community service learning, and scholarship and enhance their ability to advocate for justice
- Students develop the skills and knowledge to further their education by completing professional and advanced academic degrees, and may also pursue careers in community development and organizing, law, politics, education, journalism, social service, and other career fields.

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			32-33		
College Composition I: Expository Writing and Research	ENG 101	Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.	3		
College Composition II: Writing about Literature	ENG 102	English 101 with a grade of C- or higher	3		
Introduction to Psychology (B)	PSY 110	Eligibility for ENG 101	3		
Introduction to Sociology (B)	SOC 110	Eligibility for ENG 101	3		
Public Speaking (C)	COM 150		3		
US Women's History (C)	HIS 130	Eligibility for ENG 101	3		
Humanities (C)			3		
User's Guide to the Human Body (D) <u>or</u> Human Biology (D)	BIO 109 BIO 111		4		
Laboratory Science (D)			4		
Mathematics (D)			3-4		
PROGRAM REQUIREMENTS			6		
Introduction to Women's Studies	WST 100	ENG 101	3		
Sociology of Sex and Gender	SOC 215	SOC 110	3		

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Read the catalog online at www.hcc.edu/catalog

WOMEN'S STUDIES OPTION – H071 *continued*

A.A. in Arts and Science

CONTACT

Nichole Hendricks, (413) 552-2175, nhendricks@hcc.edu

COURSE TITLE	COURSE NUMBER	PRE-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
PROGRAM ELECTIVES <i>(Select 5 from the following courses)</i>			15		
Women and Art	ART 147	Eligibility for ENG 101	3		
Women in Photography	ART 156		3		
Women, Crime and Justice	CRJ 217/ WST 217	SOC 110 or PSY 110	3		
Current Themes in Literature	ENG 230	ENG 102, previously or concurrently	3		
Domestic Violence	HSV 205	Eligibility for ENG 101	3		
Women and the Law	LAW 215/ WST 215		3		
Human Sexuality	PSY 203	PSY 110	3		
Psychology of Women	PSY 224	PSY 110	3		
Psychology of Men	PSY 225	PSY 110	3		
Intimate Relationships, Marriage, and Family	SOC 130		3		
PROGRAM ELECTIVES <i>(Sufficient to complete 60 credit graduation requirement)</i>			3-6		
Building Self-Esteem for Women	HFN 164		1		
Women's Self-Defense	HFN 165		1		
Self Defense	HFN 166		1		
			1-3		
TOTAL CREDITS			62-63		

NOTES

* Only six non-Arts and Science credits may be taken towards an A.A. degree.

MASS TRANSFER BLOCK GENERAL EDUCATION REQUIREMENTS

BEFORE FALL 2009, COMMONWEALTH TRANSFER COMPACT

Students interested in fulfilling the Commonwealth Transfer Compact must complete the following requirements, and the Associate Degree, in order to receive Compact Status. Additional information is

available in this catalog under "Degree and Degree Requirements," in the Glossary. Students may also refer to the current Schedule Book or see the Transfer Counselor.

English 101/102 (A)	6
Social Sciences (B)	9
Humanities/Fine and Performing Arts (C)	9
Mathematics (D)	3-4
Natural & Physical Laboratory Science (D) (2 courses/4 credits each)	8

A

English Composition

ENG 101 ENG 102 ENG 104

B

Social Sciences

ANT 101 ANT 103 ANT 110 ANT 114 ANT 120 ANT 130 ANT 150 ANT 250 COM 212 CRJ 110 CRJ 117 CRJ 208 CRJ 210 CRJ 217 ECN 100 ECN 101 ECN 102
 ECN 105 ECN 120 ECN150 ECN 250 GEO 110 GRT 110 GRT 120 HON 206 HSV 120 HSV 205 HSV 208 HSV 210 HSV 212 HSV 226 LAW 215 POL 101 POL 110
 POL 120 POL 125 POL 126 POL 140 POL 150 POL 230 PSY 110 PSY 202 PSY 203 PSY 210 PSY 215 PSY 216 PSY 217 PSY 218 PSY 220 PSY 222 PSY 224
 PSY 225 PSY 230 PSY 233 PSY 240 PSY 242 PSY 250 PSY 260 PSY 265 PSY 270 SOC 110 SOC 130 SOC 150 SOC 204 SOC 208 SOC 210 SOC 213 SOC 214
 SOC 215 SOC 220 SOC 240 SOC250 SSN 120 SSN 230 WST 100 WST 215 WST 217

C

Humanities / Fine and Performing Arts

ART 101 ART 110 ART 121 ART 122 ART 123 ART 124 ART 131 ART 132 ART 140 ART 141 ART 145 ART 147 ART 148 ART 150 ART 151 ART 272 ART 222
 ART 231 ART 232 ART 235 ART 241 ART 242 ART 250 ART 253 ART 254 ART 255 ART 261 ART 262 ART 276 ASL 201 ASL 202 ASL 291 ASL 292 COM 116
 COM 121 COM 131 COM 150 COM 235 EMS 111 EMS 112 EMS 118 EMS 124 EMS 218 EMS 225 DFS 101 DFS 103 DFS 104 DFS 108 DFS 205 ENG 103 ENG 201
 ENG 202 ENG 203 ENG 211 ENG 212 ENG 214 ENG 215 ENG 216 ENG 217 ENG 218 ENG 223 ENG 224 ENG 226 ENG 227 ENG 230 ENG 231 ENG 232 ENG 235
 ENG 237 ENG 245 ENG 250 FRH 201 FRH 202 FRH 205 FRH 206 FRH 207 GER 205 HIS 101 HIS 102 HIS 103 HIS 104 HIS 105 HIS 107 HIS 108 HIS 109
 HIS 111 HIS 112 HIS 121 HIS 130 HIS 150 HIS 220 HIS 250 HIS 260 HON 206 HUM 206 MUS 100 MUS 105 MUS 106 MUS 107 MUS 110 MUS 140 MUS 150
 MUS 208 MUS 209 MUS 250 MUS 259 MUS 260 PHI 100 PHI 101 PHI 103 PHI 110 PHI 120 PHI 130 PHI 140 PHI 230 SPA 201 SPA 202 SPA 203 SPA 204
 SPA 205 SPA 206 SPA 210 SPA 211 SPA 212 SPA 214 THE 100 THE 110 THE 124 THE 125 THE 212 THE 213 THE 227 THE 235 THE 237

D

Mathematics / Natural & Physical Sciences

AST 110 AST 116 AST 140 BIO 100 BIO 101 BIO 103 BIO 104 BIO 106 BIO 107 BIO 108 BIO 109 BIO 110 BIO 111 BIO 112 BIO 115 BIO 116 BIO 120
 BIO 130 BIO 215 BIO 217 BIO 218 BIO 222 BIO 223 BIO 229 BIO 230 BIO 243 CHM 101 CHM 102 CHM 113 CHM 114 CHM 121 CHM 124 CHM 221 CHM 222
 CHM 224 EGR 110 EGR 111 ESC 111 ESC 120 ESC 130 ENV 120 ENV 124 ENV 137 ENV 138 ENV 140 ENV 253 FRS 101 FRS 110 FRS 201 HRT 212 MTH 104
 MTH 107 MTH 108 MTH 111 MTH 112 MTH 113 MTH 114 MTH 125 MTH 135 MTH 142 MTH 150 MTH 155 MTH 160 MTH 162 MTH 205 MTH 211 MTH 212 MTH 213
 MTH 214 MTH 230 MTH 245 PHS 101 PHS 102 PHS 111 PHS 112 PHS 201 PSC 140 PSY 142 SEM 110 SEM 111 SEM 116 SEM 130 SUS 101 SUS 102 SUS 103
 SUS 104 SUS 105 VET 133 VET 134

COURSE DESIGNATIONS

ACC	Accounting	ESC	Earth Science	NUR	Nursing (ADN)
ANT	Anthropology	ESL	English as a Second Language	PHI	Philosophy
ART	Art	FNS	Funeral Service	PHM	Pharmacy Science and Technology
ASL	American Sign Language	FRH	French	PHS	Physics
AST	Astronomy	FRS	Forensic Science	PNR	Practical Nursing (LPN)
BIO	Biology	GEO	Geography	POL	Political Science
BUS	Business	GER	German	PSC	Physical Science
CAD	Computer-Aided Drafting	GIS	Geographic Information Systems	PSY	Psychology
CHI	Chiropractic	GRT	Gerontology	RDL	Radiologic Technology
CHM	Chemistry	GSY	General Studies	SEC	Security
COM	Communication	HCA	Hospitality Management	SEM	Science and Technology
CRJ	Criminal Justice	HFN	Health, Fitness, & Nutrition	SOC	Sociology
CSD	Contemporary Studies	HIM	Health Information Management	SPA	Spanish
CSI	Computer Information Systems	HIS	History	SPO	Sport Administration
CUL	Culinary Arts	HON	Honors	SSN	Social Science
DFS	Deaf Studies	HSV	Human Services	SUS	Sustainability
DVD	Developmental Disabilities	HTH	Health	THE	Theater
ECN	Economics	HUM	Humanities	VET	Veterinary Technology
EDU	Education	LAW	Legal Studies	WST	Women Studies
EGR	Engineering	MEA	Medical Assistant		
ELC	Electricity	MGT	Management		
ELR	Electronics	MKT	Marketing		
EMS	Introduction to Electronic Media	MTH	Mathematics		
ENG	English	MUS	Music		
ENV	Environmental Science and Technology	NTR	Nutrition		

ARTS AND SCIENCE ELECTIVES

Students choose an elective from the areas of Social Science, Math/Science, and/or Humanities. The following qualify as Arts and Science Electives

SOCIAL SCIENCES		HUMANITIES		LAB SCIENCES		MISCELLANEOUS	
ANT	Anthropology	ART	Art	AST	Astronomy	ENV	Environmental Science
DVD	Developmental Disabilities	ASL	American Sign Language	BIO	Biology	HRT	Horticulture
ECN	Economics	COM	Communications	CHM	Chemistry	IDP	Interdisciplinary
GEO	Geography	DFS	Deaf Studies	EGR	Engineering	MTH	Mathematics
GRT	Gerontology	EMS	Electronic Media	ENV	Environmental Science		
HIS	History (HCC only – counted as Humanities for Transfer Compact)	ENG	English	ESC	Earth Science		
HSV	Human Services	ESL	English as a Second Language	FRS	Forensic Science		
POL	Political Science	FRH	French	PHS	Physics		
PSY	Psychology	GER	German	PSC	Physical Science		
SOC	Sociology	HIS	History (for Transfer Compact only)	SEM	Science and Technology		
SSN	Social Sciences	HON	Honors	SUS	Sustainability		
WST	Women Studies	HUM	Humanities				
		MUS	Music				
		PHI	Philosophy				
		SPA	Spanish				
		THE	Theater				

ONLINE ACCOUNTS

The Information Technology Division of Holyoke Community College is pleased to announce that all students registered for credit classes at the College are provided a personal, online portal account called "MyHCC."

The HCC portal contains student email (Cougar Den) and Online Services (self-service) accounts. The College will use this email account or the messaging system to send communications to the student body. Student email addresses will be recorded in the College's electronic directories and records. **Students are responsible for reading official College email and messages in a timely fashion. Please review the "Acceptable Use Policy" located on the portal logon page.**

New portal and email accounts may take up to 24 hours after registration to be created. The MyHCC icon on the HCC Homepage (<http://www.hcc.edu>) and on the E-Institute website (www.hcc.edu/catalog) will bring you to the Multiple Service log in page, http://myportal.hcc.mass.edu/site/index_page.html.

*It is extremely important that students log into this system, as it is an important communication tool between student, professor and administration. Also, **urgent College-wide information and announcements concerning closings and events are transmitted through this medium and the Emergency Notification System (ENS)** – <http://www.hcc.edu/ENS>.*

The HCC Online Services area (tab) of the portal contains personal academic information and access to the following:

1. View and Print
 - Mid-term and final grades
 - Class schedule
 - Unofficial transcripts (course history)
2. Check course availability
3. Review your financial aid information
4. Check account balances/pay online and more

Directions (manuals), including information on IDs and passwords for these services, can be found on the HCC Portal login page: <https://myportal.hcc.mass.edu>.

For help signing on to MyHCC, stop by the Welcome Center, Frost 221, phone (413) 552-2000 or for online help, email dlhelp@hcc.edu, phone (413) 552-2124.

ONLINE COURSES – E-Institute - <http://holyokecc.mrooms3.net>

With many students having busy home and work schedules, online courses provide an additional option for pursuing a college education. However, you must be self-motivated, enjoy learning independently, and possess basic computer skills (emailing, attaching files, word processing, etc).

Online courses are not self-paced and do have time oriented assignments. Online learning means that the student and the instructor do not have to be at the same place at the same time in order for teaching and learning to occur. Through HCC's online learning platform, Moodle, your classroom is a web site that can be accessed from anywhere in the world, and the lectures are read instead of sitting and listening to instructor. Your discussions with your instructor and classmates are typed instead of spoken, and you will need to log onto the class several times a week to see if there is anything new that pertains to your studies. Most courses require student participation on a minimum of 3 to 5 days a week. You must be self-motivated, enjoy learning independently, and possess basic computer skills (emailing, attaching files, word processing, etc).

HCC offers approximately 70+ courses online and 10+ brick and click courses. For a complete listing of all online degree and certificate programs that are 50%, 80% or 100% on-line, please go to our E-institute home page and click on "Browse the list of degrees and certificates."

Brick and Click is the name commonly used at HCC to describe courses that combine face-to-face classroom instruction with computer-based learning. The goal of Brick and Click courses is to join the best features of in-class teaching with the best features of online. Brick and Click courses reduce the amount of time the student spends in the classroom, because portions of the course requirements are completed online.

On-site companion courses are traditional onsite lecture courses with some web components. Students may be required to access class notes, assignments, quizzes, etc. via the internet and Moodle. Instructions will be given in class.

Helpful instructions:

- Contact dladvising@hcc.edu regarding academic advising for online learning courses
- View
- Preview a Course at E-Institute
- View "Online Course Information" link on HCC's E-Institute to see course specific information
- View "General Information" link
- View "Enrollment Information"
- Review the "Semester Calendar and Instructions"
- Review "Preview a Course"
- If you encounter any problems, please call or email dlhelp@hcc.edu 413-552-2124 or dlhelp@hcc.edu. Self-help files can be found on the main web page under "Common Problems."

IS DISTANCE LEARNING FOR ME?

Do you have good independent skills?

Can you write clearly and articulate what you want to say in writing?

Do you prefer to hear direct lectures/class discussions to understand course materials and learn?

Do you procrastinate and finish coursework at the last minute?

Do you have good basic computer skills?

- Do you own a computer? Windows 2000 or XP or VISTA are preferable
- Do you have Internet access? Dial up; DSL; Broadband; other (dial up can be problematic)
- Can you type?
- Can you send an email?
- Can you send an attachment to an email?
- Can you definitely schedule 9 to 12 hours a week for online coursework and discipline yourself to stick to this schedule?
- Are you willing to deal with technical problems and willing to try to solve them by yourself or with assistance over phone or by email?
- Do you need to take the course in an online, distance-learning format?

REQUIREMENTS FOR REGISTERING FOR ONLINE COURSES

Students must have access to a computer (minimum system requirements listed below) with an Internet connection and e-mail account to participate in online courses.

PC	MAC
Pentium III or greater	Power Mac or iMac
Windows 2000/ME/XP/VISTA	OS 10.x or higher
512 MB RAM minimum	512 MB RAM minimum
CD ROM Drive	CD ROM Drive
Sound Card	Sound Card
6.0 or higher browser (Preferably IE)	6.0 or higher browser (Preferably IE)
DSL or Broadband connection with e-mail address	DSL or Broadband connection with e-mail address

Please note: MACs are not supported by the DL helpdesk. The above requirements are MINIMUM. It is recommended that you have the latest technology in order to get the most out of your online experience.

Additional information can be found at:

http://www.webct.com/exchange/viewpage?name=exchange_browser_tuneup#preparing.

COURSE DESCRIPTIONS

ACCOUNTING

ACC 111 Principles of Accounting I 4 credits

Introduces financial accounting with emphasis on the collection, classification, summarization, and reporting of financial information about a specific business. The use of journals, ledgers, working papers, and financial statements is illustrated.

Prerequisite: Students must be eligible for MTH 085.

ACC 112 Principles of Accounting II 4 credits

The development of accounting principles with application to partnerships, corporations, and manufacturing businesses. The use of accounting as a basis for managerial decisions is emphasized. Prerequisite: ACC 111.

Prerequisite: ACC 111

ACC 115 Computer Assisted Accounting 3 credits

Designed to give students with an accounting background a familiarity with accounting spreadsheet applications. System design theory and accounting theory will be integrated to convert a manual accounting system to a computerized system through use of spreadsheet software.

Prerequisite: ACC 111 *Pre/Corequisite:* BUS 215

ACC 201 Intermediate Accounting I 3 credits

Develops accounting theory on a comprehensive level. Topics include a review of the accounting process and basic accounting concepts as well as in-depth coverage of the elements of financial reporting including financial statement disclosures and special considerations and valuation issues related to cash, receivables, revenue recognition, inventory, fixed assets, and intangibles. The use of present value techniques in the determination of accounting valuations is also covered.

Prerequisite: ACC 112

ACC 205 Managerial Accounting 3 credits

An introduction to the preparation and use of financial information for internal management purposes. Major emphasis will be on the collection and interpretation of accounting data for planning and control purposes.

Prerequisite: ACC 112

ACC 212 Federal Income Taxation 3 credits

Introduces the fundamental concepts of Federal Income Tax Law with an emphasis on individuals. Topics include gross income, deductions, losses,

tax credits, basis considerations, capital gains and the preparation of federal income tax forms.

Prerequisite: ACC 112

ACC 215 Certified Bookkeeper Preparation 3 credits

Designed as a capstone course that will review and summarize accounting for end-of-period adjustments, depreciation, error correction, inventory, payroll, internal controls and fraud prevention. Upon completion of the course, the student will be able to take the American Institute of Professional Bookkeeper Exam, which is administered for a fee.

Pre-/Co-Requisite: ACC 201

ANTHROPOLOGY

ANT 101(B) Cultural Anthropology 3 credits

An introduction to the field, emphasizing the similarities and differences among societies with different economic, social, political, and religious traditions. Several societies with cultures quite different from our own are studied in detail. Theories about social structure and culture, the research methods used by anthropologists, and the ethics of anthropological research and applied anthropology are covered.

ANT 103(B) Introduction to Language and Linguistics 3 credits

What is language? What is an accent? How do children learn language? These are some of the questions explored in this introductory course about language structure. This course investigates the nature of sounds, words, sentences, meanings, and conversations. The course applies learned concepts to other areas of language study: language acquisition, dialect variation, sign language, and language change. Emphasis is placed on collection and analysis of everyday language examples. (Same as ENG 103 and DFS 103)

Prerequisite: ENG 101

ANT 110(B) Introduction to Anthropology 3 credits

A survey of the concepts, models, theories, and methods of anthropology with emphasis on each of the four major sub-disciplines: Physical, Cultural, Linguistic, and Archaeological Anthropology. Topics include the relationship among human biology, language, and culture; human biological variation; cultural diversity; evolution; and culture change.

ANT 114(B) Understanding Diversity and Valuing Similarities 3 credits

This course is an introduction to the variety of cultural, ethnic and racial groups, with the goal of examining stereotypes and developing an appreciation of cultural diversity. Each time the course is offered, the heritage and culture of several distinct groups will be studied in detail, with special emphasis on the groups most common to the Connecticut River Valley. Students will be encouraged to investigate their own cultural heritage, as well as that of other groups.

ANT 120(B) Survey of North American Indians 3 credits

A survey of the Indians of North America, including a study of their origins, patterns of survival, social organization, and religions; the effects of White contact; and their present condition in the United States, Canada, and Mexico.

ANT 130(B) Archaeology and Prehistory 3 credits

An introduction to archaeology, including an overview of the methods and theories of the discipline, the conceptual framework within which we impose meaning on archaeological materials, and an exploration of the theories of the origins and evolution of humans and culture.

ANT 150(B) Topics in Anthropology 3 credits

This course will offer students an opportunity to investigate and examine a particular area in anthropology that was covered in much less detail in the Introduction to Anthropology course. The specific topic to be studied may change each time the course is offered.

ANT 250(B) Topics in Anthropology 3 credits

In this course, students will study a particular sub-field within Anthropology. The specific topic to be studied may change each time the course is offered. Students will be expected to complete a research project. Prerequisite: One previous Anthropology course and English 101 (additional prerequisites or a specific Anthropology course or permission of the instructor may be specified, depending upon the topic to be studied).

Prerequisites: Prerequisite: One previous Anthropology course and English 101 (additional prerequisites or a specific Anthropology course or permission of the instructor may be specified, depending upon the topic to be studied).

ART

ART 101 Careers in Visual Art 1 credit

Explores potential careers for students in visual art, such as architecture, landscape, fashion, costume, furniture, industrial, interior, graphic, and textile design; illustration; gallery and museum work; photography; teaching;

historic restoration; and fine art painting and sculpture. Includes field trips to work-sites, tours, interviews, and discussions with professionals, and may include library research.

ART 110(C) Visual Fundamentals 3 credits

Students will be introduced to a basic language of visual elements (line, shape and three-dimensional form, color, space, texture, and value) and principles of design. Students will investigate how and why images are made, and how they are received and experienced. Art and visual culture will be critically evaluated. This course will engage a broad range of imagery, encompassing a variety of styles, purposes, iconographic themes, and media (such as painting, sculpture, photography, film and video, advertising, and Internet).

ART 121(C) Basic Drawing 3 credits

Introduction to primary drawing techniques, focusing on black and white and limited monochromatic color media, using a variety of media (pencil, crayon, charcoal, wash, ink, etc.). Emphasis is on sound observation, skillful employment of materials, increased exposure to the fine art of drawing, and effective presentation of completed work.

Two, 2½ hour studios per week.

ART 122(C) Drawing Composition 3 credits

Concentrates on the methods of attaining a unified pictorial composition using the basic elements of drawing and design.

Prerequisite: ART 121

Two, 2½ hour studios per week.

ART 123(C) Basic Design I 3 credits

Introduction to the elements and principles of basic design, including concepts such as representation and composition, and the characteristics of various two-dimensional media.

Two, 2½ hour studios per week

ART 124(C) Basic Design II 3 credits

Continuation of Basic Design I. Specific problems in two and three dimensions emphasizing repetition, color, structure, function, and related concepts.

Prerequisite: ART 123

Two, 2½ hour studios per week.

ART	131(C)	Introduction to Art History I	3 credits
		A chronological, historical analysis of major works of art from prehistoric times to the present. Emphasis on technical, aesthetic, and historical relevance.	
		<i>Prerequisite:</i> ENG 101, previously or concurrently	
ART	132(C)	Introduction to Art History II	3 credits
		See description above	
		<i>Prerequisite:</i> ENG 101, previously or concurrently	
ART	140(C)	Basic Still Photography	3 credits
		Introduces the technical and aesthetic craft for making a photograph through outdoor-indoor practices and hand processing and printing methods that lead to professional quality work.	
		<i>Prerequisite:</i> 35mm SLR film camera required Two, 2½ hour studios per week.	
ART	141(C)	Advanced Photography	3 credits
		Refines basic technical skills; discusses the aesthetics of photographic subject content and context, composition, use of symbolism and metaphor, etc.; the image in narrative sequencing; reviews the work of contemporary photographers.	
		<i>Prerequisite:</i> ART 140; 35 mm SLR film camera is required Two, 2½ hour studios per week.	
ART	145(C)	A Critical Survey of Photography	3 credits
		A survey of the history and aesthetic concerns of photography. Presents a way of looking at photographs and of interpreting and recognizing certain historical and stylistic elements in portrait photography, photojournalism, advertising, documentary photography, and the family snapshot. Emphasis is on the content and context of the works examined. No experience in photography is necessary, but experience is helpful.	
ART	147(C)	Women and Art	3 credits
		A survey of women's contributions to the visual arts, from antiquity to the present. Examines women as producers, buyers, and subjects of art, and how these roles have been shaped by prevailing ideas about women and gender. Challenges traditional definitions of art and artists. Considers restrictions and prejudices confronted by women, and women's triumphs in the face of social, political and economic barriers.	
		<i>Prerequisite:</i> Eligible for ENG 101	

ART	148 (C)	Introduction to Digital Fine Art Photography	3 credits
		This course is an introduction to necessary imaging software and production procedures used in the creation of the fine art digital photograph. Students learn the basic concepts and tools of Adobe Photoshop necessary to enhance images rather than as a tool of manipulation, emphasizing color and tonal correction, as well as solving visual problems that would be more difficult to solve in the wet darkroom. The class will discuss using color management to ensure predictable and consistent results. A variety of printers, archival inks and media will be compared while students work first-hand in the digital darkroom. The course is designed to meet the needs of photographers who want to use the computer to do everything they have previously done in the traditional darkroom.	
		<i>Prerequisite:</i> ART 140 Two, 2½ hour studios per week.	
ART	150(C)	Topics in World Art	3 credits
		Introduction to the visual art of several cultural areas, such as India, China and Japan; Africa and the Islamic World; and Precontact America and Oceania. Specific topics from these areas to be selected each semester.	
		<i>Prerequisite:</i> ENG 101	
ART	151(C)	Topics in American Art	3 credits
		This course will explore various aspects of American art and visual culture. Topics may be defined chronologically or thematically. Specific topics to be selected each semester.	
		<i>Prerequisite:</i> ENG 101	
ART	220	Introduction to Illustration	3 credits
		Introduction to the basic concepts and methods of illustration, as used for print media, including the creation of single and multi-page drawings, posters, CD design, children's books, and sequential art. The class will cover the use of pen and ink, paint mediums, and practical business skills in order to enter the illustration field.	
		Two, 2½ hour studios per week.	
ART	222(C)	Figure Drawing I	3 credits
		A basic studio course that concentrates on the fundamentals of visualizing the human figure in a variety of techniques: pencil, ink, charcoal, watercolor, acrylic, etc. The relevance of such visual elements as line, value, rhythm, form, space, and color in the composition of a figure rendering will be emphasized.	
		Two, 2½ hour studios per week.	

ART 231(C) Painting I 3 credits
 Introduction of painting techniques in acrylic polymer, oil, and related media as they extend the concepts and practices of drawing and design programs. Emphasis placed upon the understanding of contemporary and traditional concepts in painting and the development of a personal aesthetic based on practical studio experience.
 Two, 2½ hour studios per week.

ART 232(C) Painting II 3 credits
See description above
Prerequisite: ART 231 should be taken first.
 Two, 2½ hour studios per week.

ART 235(C) History of Modern Art 3 credits
 A history of European and American visual art in the Modern and Contemporary periods (c. 1850 - present). Emphasis on historical development, expression, media (drawing, painting, sculpture, architecture, and photography), style, relationship to the observer, and social and political context of the works.
Prerequisite: ENG 101

ART 241(C) Sculpture I 3 credits
 Introduction to three-dimensional composition; personal expression; and the wide range of materials, methods, and equipment employed in sculpture and allied fields.
 Two, 2½ hour studios per week.

ART 242(C) Sculpture II 3 credits
See description above
Prerequisite: ART 241 should be taken first.
 Two, 2½ hour studios per week.

ART 250(C) Topics in Studio Art 3 credits
 A series of courses dedicated to developing a deeper understanding of specific studio issues previously introduced in foundation courses. Topics may include process and installation art, the figure in 3D, alternative processes, color studies, studio and the community, etc.
Prerequisite: ART 121 or ART 123 or permission of instructor
 Two, 2½ hour studios per week

ART 253(C) Printmaking (Relief) 3 credits
 A complete studio introduction to the working methods of the traditional woodcut, ultimately leading to various contemporary mixed media in relief. Emphasis will be on acquiring sufficient technical proficiency in these reproduction methods to realize the artist's aesthetic demands.
Co-requisite: ART 121 or ART 123
 Two, 2½ hour studios per week.

ART 254(C) Printmaking (Intaglio) 3 credits
 A studio introduction to the principal intaglio methods on metal: i.e., engraving, drypoint, and etching; the latter subdivided into line, aquatint, soft-ground, stipple, and mixed-media—leading to contemporary experimental techniques.
Prerequisite: ART 121 or ART 123
 Two, 2½ hour studios per week.

ART 255(C) Printmaking (Lithography) 3 credits
 A studio introduction to the basic methods of the planographic printing process on stone.
Prerequisite: ART 121 or ART 123
 Two, 2½ hour studios per week.

ART 256 Commercial Art and Design I 3 credits
 Introduction to the basic concepts and methods used in producing visual advertising. Covers both practical and creative aspects in the fields of graphics, typography, and layout with emphasis on the production of a portfolio of work.
Co-requisite: ART 121 or ART 123
 Two, 2½ hour studios per week.

ART 257 Commercial Art and Design II 3 credits
 Continuation of Commercial Art and Design I with additional focus on marketable graphic-design skills applicable to the field of printing and advertising. Emphasis will be on the aesthetics of design, technical proficiency in the production of camera-ready art, and understanding of the current and future methods in print production.
Prerequisite: ART 256
 Two, 2½ hour studios per week.

ART 258 Graphic Design Production 3 credits
 Practical skills in the use of modern design-production equipment. Topics include a history of print, type specification, printing processes (historic/current), use of paper, color separation, use of screens, computer pre-press, and other methods used in print production. There will be an introduction of traditional layout and current computer layout. There are several field trips during class time.
Prerequisite: ART 259
 Two, 2½ hour studios per week.

- ART 259 Computers for Graphic Designers I 3 credits**
- Develops a familiarity with the computer and the basics of desktop publishing working at a Macintosh terminal. Covers basic computer terminology, page layout + illustration software, Pagemaker and Freehand, to create professional designs.
- Prerequisite:* ART 256
Two, 2½ hour studios per week.
- ART 260 Computers for Graphic Designers II 3 credits**
- An introduction to more advanced software and terminology for layout and illustration. QuarkXpress and Illustrator will be taught. This course will build upon the technical foundation developed in ART 259 and ART 256. It is also a good adjunct to ART 220(Introduction to Illustration).
- Prerequisite:* ART 259
Two, 2½ hour studios per week.
- ART 261(C) Ceramics I 3 credits**
- Introduction to the medium of clay, including an understanding of the process by which clay is mixed, formed into pottery and sculpture, and fired into permanent ware. Aesthetic application with regard to art history and contemporary activity is emphasized.
- Two, 2½ hour studios per week.
- ART 262(C) Ceramics II**
- See description above, (ART 261 should be elected first)*
Two, 2½ hour studios per week.
- ART 265 Computers for Graphic Designers III: Digital Imaging 3 credits**
- An introduction to digital imaging software and hardware. This course will include scanning, capturing digital images and image manipulation with photographs.
- Prerequisite:* ART 259
Two, 2½ hour studios per week.
- ART 266 Introduction To Web Design 3 credits**
- Provides students with a solid understanding of the effective use of graphic design and communications theory in Web design. Student will acquire skills in HTML and Web design software with an emphasis on visual design and communication principles. Builds upon the technical and creative foundations developed in ART 259 or EMS 111. (Same as EMS 266).
- Prerequisite:* ART 265 or EMS 111 or permission of the instructor.
Two, 2½ hour studios per week

- ART 270 Topics in Photography 3 credits**
- This course will explore various aspects of photography. This course is dedicated to developing a deeper understanding of specific studio issues previously introduced in studio photography courses or subjects not explored in prior photography courses. Possible topics may include installation of photographic works, alternative processes not included in ART 274, mobile photography, portfolio building and broadening, photography book online publishing, working in the studio or outside in the community, etc.
- Prerequisite:* ART 141 or permission of the instructor.
Two, 2½ hour studios per week.
- ART 272(C) Women in Photography 3 credits**
- Women in Photography surveys the historic and contemporary artistic contributions of women in the medium of photography. This is a critical exploration into the working and personal lives of many important female photographers. Crossing cultural boundaries and demographics, we will study the work of women photographers from around the globe. Students in the course will analyze and discuss photographic images relating to topics covered in the class.
- Prerequisite:* ART 145
- ART 273 Advanced Digital Fine Art Photography 3 credits**
- This course advances student understanding of digitally based fine art photography through the refinement of digital production skills and exploration of the digital image aesthetic. Students will optimize their technical knowledge by learning essential problem solving procedures in Adobe Photoshop. Creative possibilities will be investigated through projects, assignments and critiques. The course will further student understanding of what digital photography is and can be.
- Prerequisite:* ART 148 or permission of the instructor.
Two, 2½ hour studios per week.
- ART 274 Alternative Photographic Processes 3 credits**
- This course also involves continuing the technical control and organization of visual elements to create an interesting alternative and artistic photograph using various alternative or non-silver photographic processes other than traditional methods. Class participation is given major emphasis to provide artistic stimulation and encouragement, as the student becomes more adept at analyzing their own photographs and the work of their peers. A brief photographic history of "alternative" photographic images is included.
- Prerequisite:* ART 141 or permission of the instructor.
Two, 2½ hour studios per week

ART 275 Documentary Photography 3 credits

This course involves learning to define an individual objective photographic approach to recording subject matter rather than simply technique only when observing varied subject matter including cultural, political and social issues related to the present time. The student will learn to organize the picture-essay in a critical and cohesive way that demonstrates a visual statement using the camera. The idea is to learn enough about subject matter, to find its significance in itself and in relation to its surroundings, its time, and its function. Students are encouraged to develop their own voice and study documentary theory and criticism with related assignments to create a portfolio of documentary and photojournalistic work.

Prerequisite: ART 140

ART 276(C) Color Photography 3 credits

This course involves learning to define a subject through use of color negative processes in the color darkroom. The student will learn to create a cohesive body of color work using traditional color darkroom practices via the Colenta Color Processor. The class introduces students to the materials, techniques and aesthetics of making color photographs. Color prints will be made from color negatives only and processed commercially. Aesthetics of color photograph will be examined through group critiques and discussions of work by contemporary color photographers.

Prerequisite: ART 141 or permission of the instructor.
Two, 2½ hour studios per week.

AMERICAN SIGN LANGUAGE

Massachusetts Law Regarding American Sign Language In Schools

(MGL Chapter 15A & 9A, An Act Relative to college Credit for Courses in American Sign Language)

“American Sign Language is hereby recognized as a full and legitimate language, as the language of a unique culture in the United States, and as the equivalent of a spoken language for the purpose of foreign language study and course credit”

See also DEAF STUDIES for related courses

ASL 101 American Sign Language I 3 credits

This course is an introduction to American Sign Language. Emphasis in this course is the development of receptive and expressive skills in ASL as well as the knowledge of the Deaf community. Awareness of basic cultural information for communication interaction is included. Basic conversational skills are emphasized.

ASL 102 American Sign Language II 3 credits

This course is a continuation of ASL101. It furthers the development of ASL

receptive and expressive skills by introducing more complex lexical and grammatical structures, non-manual signals and advanced dialogues.

Prerequisite: C or better in ASL 101 or appropriate score on ASL Competency Exam

ASL 201(C) American Sign Language III 3 credits

This course builds upon ASL102. It expands the use of ASL grammar, syntax, vocabulary and spatial references. Use of classifiers is heavily emphasized.

Prerequisite: C or better in ASL 102 or appropriate score on ASL Competency Exam

ASL 202(C) American Sign Language IV 3 credits

This course is a continuation of ASL201. Continued refinement of receptive and expressive skills will be emphasized. Skills in conversations and storytelling are stressed and are more complex.

Prerequisite: C or better in ASL 201 or appropriate score on ASL Competency Exam

ASL 250 Topics in Advanced American Sign Language 3 credits

Provides students who are working ASL/English interpreters with in-depth work and study of a particular area of American Sign Language (e.g. classifiers, non-manual markers/signals, use of space, idioms, ASL discourse). The specific topic to be studied may change each time the course is offered.

Prerequisites: Certification from the Registry of Interpreters for the Deaf (RID), National Association of the Deaf (NAD) and/or Massachusetts State Screening Certification. (Additional prerequisites or a specific course or permission of the Deaf Studies Faculty/Coordinator may be specified, depending on the topic to be studied.)

ASL 291(C) American Sign Language V 3 credits

This course builds upon ASL202. Informal narrative skills as well as daily conversational skills are further developed and refined. Appropriate use of advanced grammatical elements will be stressed during interactive activities. The ability to express and comprehend ideas or concepts is emphasized. Students are expected to develop proficiency in giving non-manual conversational strategies.

Prerequisite: C or better in ASL 202 or appropriate score on ASL Competency Exam

ASL 292(C) American Sign Language VI 3 credits

Builds upon competencies gained in ASL 291.

Prerequisite: C or better in ASL 202 or appropriate score on ASL Competency Exam

ASTRONOMY

AST 110(D) Introduction to Astronomy 4 credits

A survey of the universe. The physical properties and motions of the earth, moon, sun, and other planets of the solar system are discussed in detail together with a qualitative description and historical development of the observations and physical theories upon which our understanding of the universe is based. Stellar structure and stellar evolution, galaxies, quasars, black holes, and the expanding universe are discussed in a general way, leading to a discussion of intergalactic travel and communication. The methods and tools of astronomical research are introduced. Experiments from the laboratory manual are conducted. During scheduled night observations, students will acquire experience with the college telescope and equipment. Some limited use of college academic computing facilities will be made. Students must register for a lecture and a lab.

AST 116(D) Astrobiology: Creation, Evolution, and Life 4 credits

Bring your willingness to ponder some big questions as we explore the rich and awe-inspiring story of the origin and evolution of energy, matter and life as it is unfolding. What is the fascinating connection between life and the stars? Is there other life in the universe? How is the universe changing, and what will the fate of the Earth be? This course looks at new findings about the 15 billion year history of the cosmos from the diverse perspectives of astronomy and biology in classroom and laboratory settings to answer these questions and more. (Same as BIO 116 and SEM 116)

AST 140(D) Modern Astronomy 4 credits

A more detailed treatment of topics in modern astronomy, including Stellar structure and evolution; special and general relativity; black holes; quasars and the quasar controversy; radio galaxies; the expansion of the universe; the Big Bang and alternate model cosmologies; the 3 degree Kelvin microwave background; open, closed, or static universe and the search for the missing mass; and observational attempts to establish the curvature of space. A laboratory is included to support the theory. Knowledge of high school algebra is recommended.

Prerequisite: AST 110 and MTH 097 or MTH 095 or MTH 099

BIOLOGY

BIO 100(D) Introduction to Cell Functions 4 credits

This course provides an introduction to the living processes within cells by exploring the molecular basis of life. Emphasis is placed on the important types of biochemical reactions, which occur during growth, development, maintenance, and reproduction in human cells. Particular detail is given to the study of important biomolecules including water, carbohydrates, proteins, lipids and nucleic acids. Laboratory exercises supplement the lecture

emphasizing the scientific method and inquiry based learning.

3 class hours and 3 laboratory hours

Note: credit cannot be received for more than one of these: BIO 100, BIO 103.

BIO 101(D) General Biology for Non-Majors: The Processes of Life (D) 4 credits

An introduction to life's basic processes including the chemistry of life, the structure and function of the cell, how cells use energy and matter, how cells reproduce, and how genetic inheritance occurs. Examples of how these processes affect each and everyone of us on a daily basis will be explored. This course will also explore the methods of science through in class assignments and laboratory work so that students will better understand the processes of collecting, analyzing and interpreting data in various formats. Laboratories supplement lecture by allowing students to explore topics in a hands-on fashion.

Prerequisite: ENG 101 eligible

Note: Credit cannot be received for more than one of these, except by permission of department chair: BIO 100 or BIO 101 or BIO 103.

BIO 103(D) Biology Today I 4 credits

An introduction to the science of life, emphasizing unifying concepts. Topics include methods of biological experimentation, evolution, ecology, the chemistry of life, cell structure and function, cellular metabolism, and genetics. The course focuses on current issues such as biotechnology, genetic engineering, pollution, the loss of biodiversity, and human health concerns. Laboratories supplement lecture by allowing the students to explore the processes of science, emphasizing inquiry-based, student-implemented investigations. Familiarity with biological principles and their applications is intended to provide the students with knowledge critical to evaluation of the important scientific advances in today's world.

3 class hours and 3 laboratory hours

Note: credit cannot be received for more than one of these: BIO 100, BIO 103

BIO 106(D) Introduction to Biotechnology 4 credits

An introduction to biotechnology and the laboratory techniques used in biotechnology including recombinant DNA analysis, protein analysis, and immunoassays. Lecture topics include the history of DNA research, the genetic material, the tools of genetic engineering, and the methods and applications of biotechnology. Laboratories emphasize the basic core technologies used to participate at an entry level in laboratories in biomedical research, industrial or educational setting.

Prerequisites: BIO 107 (preferred) or BIO 100 or BIO 101 or BIO 103 or BIO 110 or BIO 120 and MTH 095 eligible.

BIO 107 (D) General Biology I: Introduction to Cell Functions **4 credits**

This course provides a rigorous introduction to the living processes within cells by exploring the chemical and molecular basis of life. Emphasis is placed on basic chemistry, cell structure, and the important types of biochemical reactions, which occur during growth, development, maintenance, and reproduction in cells. Particular detail is given to biochemical processes in human cells. Laboratory exercises supplement the lecture emphasizing the scientific method and inquiry based learning. 3 class hours and 3 laboratory hours

Prerequisite: ENG101 eligibility
Note: This course is designed to prepare students for further study in biological science and health-allied programs. Credit cannot be received for more than one of these, except by permission of department chair: BIO 100 or BIO 103 or BIO 107.

BIO 108 (D) General Biology II: Diversity of Life on Earth **4 credits**

Applies biological principles to a survey of the three domains of biological organisms. The biology of animals, plants, bacteria, fungi, protists, as well as viruses will be studied. Evolutionary and ecological relationships between the organisms studied will be used to develop an understanding of the fundamentals of these vital branches of biology. The importance of biological diversity to the functioning of the biosphere will be explored. Laboratories supplement lecture and allow students to investigate the structures and functions of the organisms studied.

Prerequisite: BIO 101 or BIO 103 or BIO 107.
3 class hours and three lab hours.

BIO 110(D) General Botany **4 credits**

Introductory plant biology. Lecture topics include the importance and necessity of plants to man; plant structure, diversity, ecology, propagation, and life cycles; and the historical development of species and communities. Laboratories are designed to augment lecture materials through a hands on approach to the study of plants; topics include the structure, physiology, and diversity of plants. Field trips may be added to introduce students to native plants and tropical exotic plants, and will require moderate walking over woodland terrain.

BIO 111(D) Human Biology **4 credits**

A general introduction to the human body stressing health vs. disease. In addition to an overview of the structure and function of various cells, tissues, organs, and organ systems, many social and ethical issues will be addressed. Each organ system will be examined with an emphasis on the integration of all of the systems. Laboratory exercises supplement the lecture, offering a hands-on approach and some experimentation. The lab includes dissection of (or observation of) preserved animal specimens. This course does not satisfy the requirement of programs requiring a full year of anatomy and physiology.

BIO 120(D) General Zoology **4 credits**

A basic science course that emphasizes the importance of animals and promotes their humane treatment. Covers the major animal groups, including ourselves, and provides an understanding of evolution, ecology, structures, and functions of animals and humans.

BIO 126(D) Introduction to the Microbiology of Foods **4 credits**

Covers the basic principles of sanitation in the preparation, processing, and handling of foods. Opportunity is provided to take the Serv-Safe certification exam. Basic microbiological techniques will be used in the laboratory to demonstrate the isolation, identification, and control of microorganisms associated with foodborne illnesses and food contamination. Prerequisite: one semester of college biology or chemistry.

Prerequisite: One semester of college biology or chemistry.

BIO 130(D) Conservation Biology **4 credits**

An emphasis on the conservation of the world's different organisms and habitats. Students will become familiar with the issues and problems associated with protecting biodiversity. We will examine the science of conservation genetics, species diversity, community interactions, ecosystem and landscape ecology, and the global biosphere. Through case studies, we will explore the complex, interdisciplinary nature of conservation issues such as endangered species protection, habitat loss, land use management, ecological restoration, and sustainable development. In the laboratory, students will conduct field research, visit important local conservation areas, work with computer models, and become familiar with the tools scientists use to accomplish conservation objectives. Field labs require walking over woodland terrain.

BIO 215(D) Plants of New England **4 credits**

Learn the identities and life histories of New England plants through study in field, lab, and lecture settings. Gain proficiency in the use of botanical keys and field guides to identify plants in the field. Become familiar with major plant families. Investigate the relationships between plant communities and land use history. Field trips are frequent and require moderate walking over uneven terrain.

Prerequisite: A semester course in college biology or environmental science.

BIO 217(D) Human Anatomy and Physiology I **4 credits**

A detailed study of the structure and function of the human body. Physical and chemical principles, as they apply to the comprehensive treatment of human physiology, form an integral part of the course. Content includes general introductory material, tissues, integumentary, skeletal, muscular and nervous systems and the special senses. Designed for nursing, pre-physical education, radiologic technology and other health-related

majors. Some dissection of preserved animal specimen material is included.

Prerequisite: A "C" grade or better in BIO 100 (including lab) or BIO 103 or BIO 107 or a passing score on the challenge exam.

BIO 218(D) Human Anatomy and Physiology II 4 credits

A continuation of Anatomy and Physiology I (BIO 217), concentrating on endocrine, circulatory, respiratory, digestive, urinary and reproductive systems, emphasis is placed on the correlation and integration of all the body systems. Some dissection of preserved animal specimen material is included.

Prerequisite: BIO 217

BIO 222(D) Vertebrate Field Biology 4 credits

The evolution, physiology, ecology, behavior and identification of major vertebrate classes will be discussed. Required laboratory field trips will emphasize identification of local vertebrates through observational and quantitative sampling and collection techniques. Three one-hour lectures and one three-hour laboratory per week. NOTE: Field trips and laboratories will require moderate amounts of walking over varied terrain and may require early-morning meetings.

Prerequisite: BIO 104 or BIO 108 or BIO 120 or BIO 230

BIO 223(D) Animal Behavior 4 credits

The course will emphasize the evolution and mechanisms of behavior in the animal kingdom. Topics covered may include the history and approaches to animal behavior; behavioral genetics; the nervous system and hormones; and their role in behavior; development of behavior; communication; migration and orientation; habitat selection and foraging behavior; conflict and social behavior; mating systems and parental care.

Prerequisite: BIO 104 or BIO 108 or BIO 120 or VET 133

BIO 229(D) Microbiology 4 credits

A study of the biology of microorganisms including bacteria, viruses, fungi, protozoa, algae, and parasitic animals. The effects of microbial activities on humans and the environment will be considered. Other topics include the use of microbes in biotechnology, the control of microbial growth, applied immunology, epidemiology, and pathogenesis. Laboratory experience is provided in aseptic techniques, microscopy, staining, environmental microbiology, identification of microbes, recombinant DNA technology, and pathogenic organisms.

Prerequisites: BIO 100 or BIO 103 or BIO107 or BIO 110, or BIO120

BIO 230(D) Ecology 4 credits

A study of the interrelationships between plants and animals and the physical factors in their environment. Population, distribution, community structure, and ecosystems are analyzed by laboratory and field observations. (Field trips require moderate walking.)

Prerequisite: A semester course in college biology or environmental science.

BIO 243(D) Genetics 4 credits

An investigation into the nature of inheritance in plants, animals and microorganisms. This course covers the fundamentals of modern genetics including: the patterns of inheritance, molecular genetics, and population genetics. Current advances in topics such as DNA fingerprinting, the human genome project, and genetic engineering are also considered. Connections between genetics and evolution are woven into the course. Laboratories support the lecture topics and introduce students to modern techniques in biotechnology.

Prerequisite: A grade of C or better in one of the following: BIO 100, 101, 103,107, 110, 120 or 229

BUSINESS

BUS 101 Introduction to Business 3 credits

Surveys the wide and complex range of operations that constitute the contemporary United States business scene. The latest business theories as well as brief historical backgrounds complete this overview of the way today's business community provides goods and services within the legal, ethical, and economic framework of the United States.

BUS 112 Professional Etiquette 1 credit

A study of the interpersonal and communication skills fundamental for success in the workplace. Students will hone their professional style as they study topics including professional behavior, interpersonal interactions, and civility as they relate to the workplace.

BUS 114 Money Management 1 credit

The focus of this course is to develop financially literate students. It will provide a practical introduction to personal finance and money management by focusing on realistic ways to effectively manage and protect personal assets and maximize financial health and stability. Students will learn how to design a personal budget and learn to make appropriate decisions with regard to savings, investments, insurance, credit protection, estate planning and managing personal assets. Students will evaluate the cost of borrowed money, real estate investments, the effective use of credit, tax implications and the effects the economy has on personal financial decisions.

Prerequisite: Eligibility for MTH 085

BUS	115	Computer Applications	3 credits
		An introductory, hands-on course designed to provide an overview of micro-computer hardware and software currently available and to provide hands-on exposure to internet, e-mail, operating system, word processing spreadsheets, database and graphics applications. Students will not receive credit for CSI 111 and BUS 115. Keyboarding skills preferred, but not required.	
BUS	170	Mathematics for Business Decisions	3 credits
		A focus on organizing, interpreting, assessing and communication mathematical data for quantitative decision making in the business environment. The problem solving, reasoning, and communication requirements in this course will help students make better decisions associated with common business functions such as: payroll and taxes; accounting; banking; both electronic and store-front retailing; insurance, and finance. The course will stress critical and logical thinking skills, number sense and estimation, evaluating and producing statistical information, basic financial decision making, some fundamentals of probability, and an overview of the important social implications underlying any numerical data.	
		<i>Prerequisite:</i> CSI 111, BUS 115 or BUS 215, Eligibility for MTH 095	
BUS	215	Spreadsheets	3 credits
		This course will cover all aspects of spreadsheets using an integrated software package which combines a large, advanced electronic worksheet with state-of-the-art graphics and database management capacity, beginning with building a basic worksheet and progressing through the major commands and advanced features of the software package. Keyboarding skills preferred, but not required.	
BUS	216	Advanced Computer Applications	3 credits
		This course will provide in-depth coverage of office productivity tools including word processing, spreadsheets, database, presentation software and the integration of the components and the ability to apply the necessary software tools to solve common business problems. Security issues and solutions will be integrated into the course. Students will master advanced application skills which will provide valuable job skills. Upon successful completion of this course, the student will be eligible to take optional Microsoft Office Certified Application Specialist exams administered by the College for a fee.	
		<i>Prerequisite:</i> BUS 115 or CSI 111	
BUS	220	Business Communications	3 credits
		Emphasizes the fundamental principles of oral and written communication within an organizational setting. Techniques for writing various types of communication are studied, including the writing of news releases, policies, procedures, and performance appraisals, includes instruction in oral com-	

munication and the use of presentation software. Grammar, syntax, style, economy of expression, organization of thought, and clarity are stressed.

Prerequisite: ENG 101

BUS	245	Introduction to International Business	3 credits
		The United States and the rest of the world are now a part of a global economy, a global marketplace. An introduction to this international environment of business is provided by this course with an emphasis on the challenges and opportunities this global economy offers all organizations-large or small, U.S. or foreign-owned, doing business in the United States or abroad. An emphasis will be on the international trade and finance, strategic planning, sociocultural issues, and political and legal forces.	
BUS	253	Introduction to e-Commerce	3 credits
		This course will address issues related to developing an Internet strategy for existing or new dot-com organizations/companies. It will address the advantages and disadvantages of using electronic commerce, the technologies needed and the differences in the types of communications inherent in electronic commerce. Finally, it will help to identify methods for integrating a business with the Internet. Same as CSI 253.	
BUS	276/ 277/ 278	Internship in Business	1-3 credits
		A practical experience in which a student gains hands-on experience in an organizational setting while witnessing the practical application of classroom theory in the real world. Internships are collaboratively supervised by a faculty sponsor and a work-site supervisor.	
		<i>Prerequisites:</i> 24 credits, a 2.5 grade point average, the successful completion of four business courses with a grade C- or better in each, and the approval of a Business Division faculty sponsor.	
BUS	280	Cooperative Education in Business I	3 credits
		Provides accounting, business administration, and office administration students with the opportunity to apply classroom theory in an actual work setting in supervised positions related to their majors. Approximately 15-20 hours of work per week plus a 50-minute weekly seminar that includes discussion of topics related to success on the job and career exploration.	
		<i>Prerequisites:</i> Sophomore status, approval of department chair, ACC 112 (for accounting and business administration students only), and either the completion of, or current enrollment in, two other ACC, BUS, HFM, or OTC courses.	

BUS 281 Cooperative Education in Business II 3 credits

Provides accounting, business administration, and office administration students with the opportunity to acquire additional in-depth knowledge and demonstrate increased levels of expertise in supervised positions related to their majors. Approximately 15-20 hours of work per week plus a 50-minute weekly seminar are required. Seminar includes discussion of topics related to success on the job.

Prerequisites: BUS 280

BUS 290 Topics in Business 3 credits

The exploration of current topics in business, allowing practical application in areas of business study most relevant to today's student.

Prerequisites: ENG 101 Eligible and (2) others, depending upon particular area of business being addressed.

CHEMISTRY

CHM 101(D) General Chemistry I 4 credits

A study of the fundamental chemical laws and theories, including gaseous state, mole concept, stoichiometry, periodic law, and atomic and molecular structure. Descriptive materials supporting the discussion are from the field of inorganic chemistry.

Note: In order to obtain graduation credit for this course, the student must successfully complete CHM 102 or CHM 114 or CHM 124.

CHM 102(D) General Chemistry II 4 credits

An introduction to solutions, ionization, kinetics, energy, equilibria, acid-base theories, oxidation-reduction, and organic chemistry. Descriptive material supporting the discussion is from the fields of inorganic chemistry and organic chemistry.

Prerequisite: CHM 101, CHM 113, or CHM 121.

CHM 113(D) Principles of Chemistry I 4 credits

A study of the fundamental chemical laws and theories, including stoichiometry, the gaseous and liquid states, periodic law, atomic and molecular structures, and energy. Descriptive material supporting the discussion is from the field of inorganic and organic chemistry. Qualitative and quantitative laboratory work supports the lecture discussion. High School Algebra I or equivalent recommended.

Note: In order to obtain graduation credit for this course, the student must successfully complete CHM 102 or CHM 114 or CHM 124.

CHM 114(D) Principles of Chemistry II 4 credits

A study of solutions, ionization, acid-base theories, equilibria, oxidation-reduction, electrochemistry, and nuclear chemistry, and an introduction to organic chemistry. Descriptive material supporting the discussion is from the field of inorganic and organic chemistry. Qualitative and quantitative laboratory work supports the lecture discussion.

Prerequisite: CHM 113 or equivalent. High School Algebra I or equivalent recommended.

CHM 121(D) Inorganic Chemistry I 4 credits

This course is recommended as a preparation for future chemistry courses. A study of scientific method; chemical laws and theories; electronic, atomic, and molecular structure and their underlying experimental basis; chemical bonding; periodic table relationships; quantitative and stoichiometric relationships; thermochemistry; gas laws; liquid state; and solutions. Qualitative and quantitative laboratory work supports lecture discussion.

Prerequisite: High School Algebra I or equivalent. High School Chemistry recommended.

Note: In order to obtain graduation credit for this course, the student must successfully complete CHM 102 or CHM 114 or CHM 124.

CHM 124(D) Inorganic Chemistry II 4 credits

A study of properties of solutions, electrolytes, ionization, oxidation-reduction, electro-chemistry, kinetics, energy, thermodynamics, principles of chemical equilibria including ionic equilibria and solubility product, hydrolysis, acid-base theories, nuclear chemistry, and descriptive chemistry. Qualitative and quantitative laboratory work supports lecture discussion.

Prerequisite: CHM 113 or CHM 121.

CHM 221(D) Organic Chemistry I 4 credits

A study of the chemistry of carbon compounds. Lectures cover the chemistry of the principal classes of the aliphatic hydrocarbons including nomenclature, molecular structure, stereochemistry, and reactivity. Stress is placed on the relationship among molecular structure, stereochemistry, and chemical reactions of these compounds. Laboratory includes classical techniques of separation and identification of organic compounds as well as modern techniques of instrumentation.

Prerequisite: CHM 124, 114, or 102 with permission of instructor.

CHM 222(D) Organic Chemistry II 4 credits

Continuation of Chemistry 221. Lectures cover the chemistry of the aromatic compounds, alcohols, ethers, organometallic compounds, aldehydes, ketones, and organic acids and amines. Stress is placed on the nomenclature, syntheses, molecular structure, stereochemistry, and principal chemical reactions of these compounds. Laboratory includes the characterization and synthesis of the above compounds using classical methods and modern instrumentation.

Prerequisite: CHM 221 or one previous semester of Organic Chemistry

CHM 224(D) Organic Chemistry IIA 5 credits

Same lecture material as CHM 222 except for the addition of three laboratory hours. Laboratory includes the synthesis of compounds found in chemical literature. Modern instrumentation is used extensively to characterize and purify these compounds.

Prerequisite: CHM 221(D) or equivalent

COMMUNICATION (EMS courses are located under Electronic Media)

COM 107 Professional Speaking 3 credits

Be on the cutting edge with this opportunity to develop communication skills in various professional scenarios. As a future professional, employers will expect students to perform speeches of various complexity and format. It is important for professionals to have dynamic communication skills in diverse practical scenarios. In this course students will have a variety of opportunities to gain confidence and skills with interviewing, persuasion, presentation technology, presentation development, problem solving, creativity, leadership and speaking dynamism. This class is suited to students who wish to increase their communication skills in professional fields such as marketing, education, law, politics, management, public relations or health professions (among others).

Prerequisite: COM 150

COM 108 Media Literacy 3 credits

This course will center on the relationship between media and society. Students will examine, discuss and analyze media messages and produce their own media based on analytical observations and a fundamental understanding of basic media literacy concepts. Coursework will include analysis of advertisements, television programs, video games, movies and news and will involve participation in a variety of role-playing activities designed to simulate various scenarios in the media industry. This course is suited to anyone interested in learning more about what goes into marketing and promotion or for those who want to better understand the persuasive techniques used in advertising. Interested students should be advised this is not a course in media bashing. The goal is for individuals to become more aware of (and resistant to) the seductive power of media messages.

COM 113 Journalism I 3 credits

Theory and practice of journalism fundamentals for print and broadcast media. Brief history of media development and present trends. Basic news writing for newspapers, radio, and television. Techniques of editing. Criticism and analysis of College and area media.

Prerequisite: Eligibility for ENG 101

COM 116(C) Journalism II credits

Concentrates on the advanced skills necessary for journalists to produce their own publications. Emphasis will be on specialized reporting skills for niche publications; the editing of material for libel and allocated space; the design of pages with art and photographs or advertisements; and the production skills necessary to create and produce a newsletter, community newspaper, or specialized magazine. Students will learn typography and the editing skills for points of entry to printed pages, basic survival skills in graphic design, and demographic marketing and distribution techniques via print and the Internet.

Prerequisite: COM 113

COM 121(C) Introduction to Communication 3 credits

Introduces perspectives from which human communication may be studied. Focuses on how we communicate with one another, looking specifically at the symbols we use and analyzing how they influence our thinking and behavior. Provides a conceptual foundation for examining language, nonverbal communication, small group behavior, and the impact of mass media on patterns of human interaction.

COM 122 Introduction to Radio Broadcasting 3 credits

A presentation of many facets of radio. Topics to be covered include radio station management, programming, advertising, the Federal Communications Commission, production techniques, and on-the-air practices. Speech 120 recommended.

COM 123 Radio Production 3 credits

An introduction to the fundamentals of radio production. Course covers various recording media, playback devices, microphones, and editing. The goal is for students to obtain basic production skills as well as an understanding of how to operate radio broadcasting equipment.

COM 131(C) Mass Communication 3 credits

This course takes a critical look at the role of mass media in American society and broadly examines their history, development, organizational structure and impact. Students will engage in a study of newspapers, magazines, ra-

dio, film, television, the Internet and the music industry from a consumer's point of view and will consider the media's place and role in a democratic society.

Note: Students will not get credit for taking COM 114 and COM 131.

COM 141 Practicum in Communication, Media, or Theater Arts 1-3 credits

This course is designed to provide students with opportunities for the enhancement of their coursework in Communication, Media, or Theater Arts. Through experience gaining practical skills, students will work directly with an instructor on the design, implementation, and practical aspects of a project.

COM 142 Practicum in Journalism 1-3 credits

This course is designed to provide students with opportunities for the enhancement of their coursework in communication, with a specific emphasis on journalism. Students, in consultation with the instructor on the design, implementation, and evaluation of the project, will gain practical skills in reporting, editing, copy-editing, and/or layout. Note about time commitment for this course: Students are expected to spend 6 hours per week per credit on work stipulated in project proposal.

Prerequisite: COM 113

COM 150(C) Public Speaking 3 credits

Introduces students to the necessary elements of informative and persuasive public speaking. The course includes performance analysis of speakers and major historical speeches. Course skills learned are useful in all forms of oral presentation in professional and academic settings. Students are required to attend one outside speaking performance, to deliver several speeches in class, and to participate in group discussion. Please note that this course replaces SPE 120 - Fundamentals of Speech. Students will not receive credit for both SPE 120 and COM 150.

COM 212 (B) Group Dynamics 3 credits

Emphasizes development of group membership skills necessary for professional practice. Through group exercises students experience concepts being studied and are given the opportunity to develop basic skills in observing and understanding human behavior, including their own, in a group context. Basic concepts in group dynamics such as cohesion, interactional patterns, roles and responsibilities within a group, norms, status, group culture, and content vs. process will be discussed. In addition, the various stages of group development and the tasks involved in each will be introduced. An understanding of the leader's role in creating a facilitating environment during the different stages of group development will also be discussed.

Prerequisite: PSY 110

COM 214(C) Social Media: More Than Just Friends 3 credits

This course explores the world of social media. It begins by tracing the historical evolution of social media in order to understand what has changed over time, what has worked successfully, what has failed and why. A major part of the course centers on understanding the social, cultural and political impact of social media. Topics include the culture of friendship, social capital and publicly displayed social networks, fan sites and parasocial interaction, social media and crime (i.e. bullying), social media marketing, and the ability of social media to mobilize groups of people for political purposes.

Prerequisites: COM 121 or COM 131 (formerly COM 114)

COM 220(C) Oral Interpretation 3 credits

Develops ability to read aloud and to interpret prose, poetry, and drama. Concentration is on techniques of projecting meaning through proper voice, diction, and body control.

Prerequisite: ENG 101

COM 235(C) Topics in Communication, Media and Theater Arts 3 credits

Each semester the course focuses on a different area of literature, theory, or performance, or a combination in Communication, Media, or Theater Arts. A specific era, a particular practitioner, a genre, or an "ism" may be focused. A detailed study is made of each special topic with particular emphasis on literary, and/or performance values. Same as THE 235.

Prerequisite: ENG 102, previously or concurrently

CRIMINAL JUSTICE

CRJ 100 Introduction to Criminal Justice 3 credits

Historical and philosophical background and critical evaluation of the criminal justice system. A study of the United States Constitution and its impact on modern criminal justice. The relationship of crime to the police, prosecution, the courts, probation, parole, corrections, and the general functions of each. Exploration of the field of criminal justice and professional career opportunities in it.

Prerequisite: English 095 eligibility

CRJ 102 Criminal Evidence 3 credits

Examination of the rules of evidence, with emphasis on the best evidence rule, the hearsay rule, the exception to the rule, corpus delicti, opinion, evidence, circumstantial evidence, privileged communications, admissions and confessions, witnesses, courtroom procedure, and testifying in court.

Prerequisites: CRJ 100 and CRJ 112

CRJ	103	Introduction to Corrections	3 credits
		Introduction to the modern correctional services of local, state, and federal institutions; the present philosophy, theory, and practice of the correctional process as it applies to convicted law violators of all age groups.	
		<i>Prerequisite:</i> English 095 eligibility	
CRJ	105	Introduction to Security	3 credits
		A survey of the administrative, managerial, and functional aspects of contract and proprietary security services. The development, history, education, training, and legal aspects of security are included. Emphasis will be placed on facility and site surveys, risk analysis, internal and external protection, intrusion and access control design, alarm monitoring, computer information protection, and safety and disaster contingency planning.	
		<i>Prerequisite:</i> English 095 eligibility	
CRJ	110(B)	Child Abuse and Neglect	3 credits
		Provides an understanding of child abuse and neglect as it involves the criminal justice system and public welfare. Develops skills needed for intervention and follow-up of complaints and in collaborating with other human service systems charged with the responsibility for dealing with child abuse and neglect cases.	
		<i>Prerequisite:</i> SOC 110 or PSY 110	
CRJ	112	Criminal Law and Procedure	3 credits
		This course studies the history and development of criminal law as a form of social control, the evolution of criminal law from civil law, and the relationship between common and statutory criminal law. The criminal process from investigation through indictment, arrest, arraignment, trial, and sentencing will be reviewed. Through analytic case studies, emphasis will be given to substantive aspects of criminal law and current constitutional constraints established by the United States Supreme Court on law enforcement procedures occurring during arrests, searches and seizures, interrogations, electronic surveillances, and other investigative practices.	
		<i>Prerequisite:</i> CRJ 100	
CRJ	117(B)	Criminology	3 credits
		"Origin and development of crime, the relationship between law and crime, theories of social and psychological factors in criminal and delinquent behavior, current programs for treatment and prevention.	
		<i>Prerequisite:</i> SOC 110 or PSY 110	
CRJ	200(B)	Contemporary Issues in Criminal Justice	3 credits
		An examination of contemporary issues in criminal justice and criminology.	

Emphasis on research and a global perspective to understanding the complex intersections of crime, race, class, the media, drugs, terrorism and politics, among other contemporary topics.

Prerequisite: SOC 110 or PSY 110

CRJ	205	Criminal Investigation and Crime Analysis	3 credits
		The Criminal Investigation and Crime Analysis course studies the fundamentals of investigative principles including theories of case investigation, proper crime scene management, collection and preservation of evidence, and the capabilities and limitations of forensic laboratories in analyzing evidentiary items such as serology, trace evidence and drug chemistry. Interview and interrogation strategies, use of informants, and surveillance techniques will also be studied. The emphasis of the course content is to familiarize students with proper investigative methods in relation to specific criminal offenses.	
		<i>Prerequisites:</i> CRJ 100 and CRJ 112	
CRJ	207	Police Operations	3 credits
		The study of line operations in law enforcement agencies with emphasis on patrol, traffic, investigation, juvenile, vice, and crime prevention, including reports, communications, and operational field procedures such as tactical units, techniques for handling civil disturbances and demonstrations, labor relations, community relations, and surveillance. The interrelationship of these operations and their role in carrying out the overall functions and responsibilities of law enforcement are emphasized.	
		<i>Prerequisite:</i> CRJ 100	
CRJ	208(B)	Juvenile Delinquency	3 credits
		Emphasis in this course is on the theories and causation of delinquency as well as treatment and prevention programs available. Students will examine public and private agencies, juvenile justice as a system, and a variety of case studies.	
		<i>Prerequisite:</i> SOC 110 or PSY 110	
CRJ	210(B)	Human Relations: Diversity and Ethical Issues	3 credits
		A critical examination of issues of diversity, ethics, and human relations as they affect the work of criminal justice practitioners. Emphasis is placed on improving skills as observers, listeners, and communicators through exercises involving resolution of individual and group conflict in a variety of settings.	
		<i>Prerequisite:</i> SOC 110 or PSY 110	

CRJ 211 Probation and Parole Practices 3 credits

Covers the roles of probation and parole officers, including pre-sentence investigation; condition of probation and parole; parole boards; the administrative relationship of probation to community and criminal justice system agencies; and effectiveness, supervision, rehabilitation, recidivism, and aftercare.

Prerequisite: SOC 110 or PSY 110

CRJ 217(B) Women, Crime and Justice 3 credits
WST 217

An examination of the factors which shape the experiences of women as victims, offenders, and criminal justice practitioners. This course will focus on the pathways to crime among female offenders, the nature of victimization among women, and the challenges that women professionals face. Finally, we will focus on the social construction of gender within the justice system and on the intersection of gender, race, class, and crime.

Prerequisite: SOC 110 or PSY 110

COMPUTER INFORMATION SECURITY

SEC 105 Principles of Information Security and Assurance 3 credits

An introduction to the various technical and administrative aspects of Information Security and Assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features.

Prerequisite: CSI 101 or CSI 111 and eligibility for ENG 101

SEC 106 Personal Computer Security 1 credit

This course is to provide students with a comprehensive overview of computer and network security issues including the numerous types of attacks computers are vulnerable to, the types of attacker profiles, and the hardware and software defense solutions available. The concept: "Total Security" will be a focus in this course. Students will learn to apply these concepts to each particular setting and know how and why they are adapted from one environment to another.

SEC 261 Information Security & Assurance Administration 3 credits

This course will teach students how to secure any network, large or small. The student will learn the realities that network administrators actually face on the front lines, where they are constantly under attack, and don't always get the support they need from their organization. The course will address many facets of network security, including defining security models, access

control, Web/DNS (domain network service)/email security, remote access and VPNs (virtual private networks), wireless LAN/WAN (local area networks and wide area networks), security, day-to-day monitoring and logging, attack response, and more. The student will learn how to systematically identify today's most widespread security mistakes and vulnerabilities, offering realistic and up-to-date solutions. The student will then integrate these techniques in an end-to-end case study, showing how to redesign an insecure enterprise network for maximum security, one step at a time.

Prerequisite: CRJ 105 or SEC 105

SEC 262 Introduction to Firewalls 3 credits

This course provides a comprehensive overview of building and maintaining firewalls in a business environment. It is designed for the student and network administrator who need to learn the basics of network firewall security. It covers basic installation techniques, discusses how to make an intelligent choice of firewall technology, and presents basic firewall troubleshooting. Specific topics covered include: planning/design, security, configuration, packet filtering, proxy servers, authentication, encryption, and VPNs.

Prerequisite: CRJ 105 or SEC 105

SEC 263 Operating System Security and Assurance 3 credits

This course takes an in-depth look at operating system security concepts by examining the theoretical concepts that make the world of security unique. A practical hands-on approach will be used when examining operating system security techniques and strategies. The course will also explore the advances in security implementation and the strategies for solving problems that may be encountered in operating system security.

Prerequisite: CRJ 105 or CSI 216

SEC 264 Disaster Recovery 3 credits

This course presents methods to identify vulnerabilities and take appropriate countermeasures to prevent and mitigate information failure risks for an organization. This course provides the networking professional with a foundation in disaster recovery principles, including preparation of a disaster recovery plan, assessment of risks in the enterprise, development of policies and procedures, an understanding of the roles and relationships of various members of an organization, implementation of the plan, testing and rehearsal of the plan, and actually recovering from a disaster.

Prerequisite: SEC 105 or CRJ 105

SEC 266 Web Security and Assurance 3 credits

This course, useful for network and system administrators, will familiarize students with the technology, vocabulary, and processes related to Internet security including general security, network security, operating system security, and methods for testing security. Both UNIX and Microsoft Windows operating systems are covered, providing a broad range of information essential for every Web professional. In this course, the student will see real-world situations that will illustrate security-related issues that security professional's experience in the workplace.

Prerequisite: CRJ 105 or SEC 105

SEC 267 Network Security and Assurance 3 credits

This course will take an in-depth look at network security concepts and techniques and examine theoretical concepts that make the world of security unique using a practical, hands-on approach. In addition, this course will explore the advancements in network implementation as well as timeless problem solving strategies.

Pre- or Co-requisite: SEC 105

SEC 268 Network Defense and Countermeasures 3 credits

The primary emphasis of this course is on intrusion detection. The emphasis is on essential practices such as developing a security policy and then implementing that policy by performing Network Address Translation, setting up packet filtering, and installing proxy servers, firewalls, and virtual private networks. The course will provide the student with a solid foundation in network security defense and assumes familiarity with the Internet and basic networking concepts.

Prerequisite: SEC 267

COMPUTER INFORMATION SYSTEMS

CSI 101 Computer Concepts 3 credits

Students will learn basic through advanced computer concepts with emphasis on both the personal computer and enterprise computing. Topics include hardware, application and system software, the Internet and World Wide Web, communications, e-commerce, societal issues, database management, systems analysis and design, programming, information systems, career opportunities, certifications in the computer field, and computer trends. (Students may not receive credit for both CSI 101 and CSI 111)

Prerequisite: Eligibility for ENG 101

CSI 102 Upgrading and Maintaining Your PC 1 credit

This course is a comprehensive, non-technical guide to upgrading your computer and fixing common problems. It provides step-by-step instructions for specific types of upgrades, fast and easy ways to troubleshoot common

computer problems, and how to restore your system to working order after a bad upgrade.

CSI 106 Programming Fundamentals I 4 credits

This course will introduce the students to program analysis and design using structured programming design concepts and techniques. Programming logic and concepts will be explored including algorithmic development, interface design, objects creation and use, data management, decision making, repetition and basic data structures using an object-oriented programming language. Students will not receive credit for both CSI 105 and CSI 106.

Prerequisites: Eligibility for ENG 101 and MTH 095; CSI 111 previously or concurrently.

CSI 111 Computer Concepts with Applications 4 credits

Understand the fundamentals of computer nomenclature, particularly with respect to personal computer hardware and software and the World Wide Web; make use of the Web as a repository of the latest information and an integrated learning tool; develop an in-depth understanding of why computers are essential to the business world and society in general; focus on the computer as a valuable productivity tool, recognizing its position as the backbone of the computer industry and as a stand-alone and networked device; learn strategies for purchasing, installing, and maintaining a personal computer system; and learn to plan a career as a knowledge-worker in the information age. This course will enable students in any major to become computer literate. Students may not receive credit for both CSI 111 and BUS 115 or for both CSI 111 and CSI 101.

Prerequisite: Eligibility for ENG 101

CSI 120 Business Data Communications 3 credits

Investigates managerial aspects of communications systems, focusing on the relationship of communications technologies to the whole organizations. Sub-themes include the relationships of communications technology with information systems, the regulatory environment, and the effects of communications technologies on people.

Prerequisite: CSI 101 or CSI 111

CSI 211 System Support 3 credits

The course will prepare students for credentialing such as A+ Certification. This course will teach students how to troubleshoot, install programs, use various operating systems and their applications, as well as develop skills in formal problem solving. The student will also gain the benefit of hardware knowledge such as CPUs, memory, storage media, modems, network interface cards (NICs) and peripherals. The students will gain hands-on experience in building, upgrading and repairing computers.

Prerequisite: CSI 101 or CSI 111

- CSI 214 System Analysis and Design 3 credits**
- An introduction to the systems development life cycle, with emphasis on the analysis and design phases. Structured methodologies utilizing CASE tools, as well as prototyping techniques, are covered. A substantial analysis and design project will be required. This course will provide the student an opportunity to advance well beyond the fundamental computer knowledge developed in a beginning computer class and aid the student in future classes. Upon successful completion of this course, the student will have the ability to design complex computer systems.
- Prerequisite:* 12 CSI credits
- CSI 215 Ethical and Legal Aspects of Information Systems 3 credits**
- The course will focus on the important role that information systems play in today's world. Professionalism, codes of ethics, and the legal issues surrounding copyrights and privacy will be explored. Theoretical analyses and case studies will be used as tools for getting students to think critically about the impact of information systems on society.
- Prerequisite:* 6 CSI credits
- CSI 216 System Support II 3 credits**
- A continuation of CSI 211. Completes the process of preparing students for credentialing such as the A+ Certification Exam. Continues to teach students how to install programs, Network Interface Cards, and hubs. Topics will include disk files systems such as FAT, FAT 32, HPFS, and NTFS. Unix and Linux, as well as Macintosh OS systems, will be discussed. Additional topics to be covered include CR-ROM, CDRW, and external secondary storage devices.
- Prerequisite:* CSI 101 or CSI 111
- CSI 218 Programming Fundamentals II 4 credits**
- Provides the student with additional knowledge of computer programming using an object-oriented programming language (such as Visual Basic. NET). A strong emphasis will be placed on the proper design and testing of a computer program as well as on the principles of object-oriented programming. This course will include an introduction to program database applications as well as other tools to create programs that conform to current industry standards.
- Prerequisites:* CSI 106, or permission of instructor; and CSI 111, and MTH 095 or MTH 099 or Mathematics Placement Exam.
- CSI 231 Computer Mediated Communication on Internet 3 credits**
- Offers an opportunity to become proficient in the use of computer mediated communication equipment-computer, modem, network, and communications software-using the Internet. Applications will be explored as a basic communication tool, a tool for accessing information systems and

databases internationally, and a tool for facilitating asynchronous online group conferences. Individualization of coursework will be accomplished by having each student apply techniques and concepts to his or her respective major and interests.

Prerequisite: CSI 111 or other introductory computer course

- CSI 242 Applied Database Management 3 credits**
- Basic models and capabilities of standard database management systems for microcomputers will be emphasized. Focus is on use of a relational database management system to solve real-world problems. Also covers the theories of database selection, design, management, and security; application generators; and data distribution. (Same as BUS 242.)
- Prerequisite:* Introductory Computer Course (CSI 111, BUS 115, BUS 215, or equivalent)
- CSI 250 Current Topics in Information Systems 3 credits**
- A current topic is explored using information systems literature and resources. The focus of the course will change each semester. Student projects include current research, application details, formal presentations, and social implications.
- Prerequisite:* 12 CSI credits
- CSI 251 Network Development 3 credits**
- Provides students with an opportunity to build upon the foundations learned in CSI 120, Introduction to Business Data Communications. The student will develop the necessary skills to implement the basics of network building, work services, transmission media, and protocols. Through hands-on experience in setting up an actual computer network, the student will be able to demonstrate the how and why of networking technology, including the use of protocols.
- Prerequisite:* CSI 101 or CSI 111
- CSI 252 Introduction to Web Site Development 3 credits**
- This course provides the student with a conceptual methodology, beginning with the questions that should be asked before a content is designed and implemented on the web and continuing through the stages of web site development from preparations and design implementation, maintenance, and continual improvement of the site. HTML will be utilized to learn the basics of web site development; in addition, current web page generators and animators for web page design will be employed. This course will examine a running case study that illustrates the types of decisions and issues a real company faces throughout the web site developmental process. Student may not receive credit for more than one of these courses: CSI 231, 260, and 252.
- Prerequisite:* CSI 111, eligibility for MTH 095 or equivalent of college-level algebra

CSI 253 Introduction to e-Commerce (Fall) 3 credits

Addresses issues related to developing an Internet strategy for existing or new dot-com organization/companies. Also addressed are the advantages and disadvantages of using electronic commerce, the technologies needed and the differences in the types of communications inherent in electronic commerce. Finally, it will help to identify methods for integrating a business with the Internet. Same as BUS 253.

CSI 254 Java Programming I 4 credits

Provides the student with a working knowledge of Java programming. Topics will include using objects, defining and designing classes, controlling and verifying object behavior, iteration, and recursion. Methods, event handling, and windows manipulation will also be covered. The complete development cycle, from problem specification through final code will be emphasized.

Prerequisites: CSI 106 and CSI 111

CSI 255 Scripting for the Web 4 credits

This course is designed to prepare the student for programming on the web utilizing the most widely used scripting languages. Fundamentals of logic will be addressed; development of algorithms and proper programming techniques will be covered. Security, browser specific code and interactivity will be addressed. Basic programming control and data structures will be taught. Server-side scripting will also be addressed. (Note: this course has been revised to incorporate the topics taught in CSI 105, Introduction to Programming Logic, the former prerequisite to this course, which will be discontinued.)

Prerequisites: CSI 252

CSI 256 Java Programming II 4 credits

Advances the student's knowledge of Java Programming. Topics will include using graphics and user interfaces, handling exceptions, multithreading, client side Java, applets and service side and network programming; newer developments in the language will also be covered.

Prerequisite: CSI 254

**CSI 276/
277/
278 Computer Information Systems Internship I, II, III 1-3 credits**

Internships provide students with learning opportunities not available in the classroom, enabling them to earn credit for unpaid, supervised practical experience, applying principles learned in the classroom. On-campus internships are supervised by a faculty member of the CIS Department; off-campus internships are supervised collaboratively by a faculty member of CIS and an on-site professional. Appropriate supporting assignments are determined by the supervisors and the student. The internship placement may be initi-

ated by the student, the supervising faculty member or an on-site professional. The supervising faculty member determines in advance whether the work will be a 1-, 2-, or 3-credit internship.

Prerequisites: Sophomore status, at least four previous CSI courses, and consent of a faculty supervisor from the CSI department.

CSI 280 Computer Information Systems Cooperative Education I 3 credits

A cooperative field experience that enables students to expand their skills and gain experience in an actual work setting. Students will work 15-20 hours weekly in a supervised position with an area business or industry. A weekly 50-minute seminar will also be required.

Prerequisites: Two (2) CSI courses and a minimum of 27 credits

CSI 281 Computer Information Systems Cooperative Education II 3 credits

A cooperative field experience that enables students to expand their skills and gain experience in an actual work setting. Students will work 15-20 hours weekly in a supervised position with an area business or industry. A weekly 50-minute seminar will also be required.

Prerequisites: CSI 280: Two (2) CSI courses and sophomore status

CULINARY ARTS

CUL 100 Culinary Foundations I 3 credits

An intensive course designed to prepare students for professional studies in the culinary arts. Focus will be on understanding characteristics of the ingredients used in food preparation as well as developing an appreciation of food as a sensory, cultural, and esthetic experience.

Prerequisite: Eligibility for MTH 085, Eligibility for ENG 085 with a grade of C- or higher or appropriate test score on the English Placement Test.

Pre-/Co-Requisite: CUL 115; Additional Course Fee: \$425. Uniforms and Tools (The fee is subject to change.)

CUL 101 Culinary Foundations II 3 credits

An intensive course designed to prepare students for professional studies in the culinary arts. Focus will be on developing proficiency in a number of basic food preparation techniques, then using that proficiency to prepare and present food items in a variety of settings. Students will be introduced to the various career opportunities that exist in the culinary arts.

Prerequisite: Grade of C- or better in CUL 100

CUL 104 Professional Standards for the Food Service Industry 1 credit

Focus is on the mechanics of pursuing a career in the food service industry. Students will explore multiple career paths within the food service industry and learn how to manage and advance their careers successfully.

CUL 105 Special Events Skills 2 credit

An introduction to culinary and dining service skills as practiced in function settings. Students will participate in an ongoing series of special banquet and reception projects during which they will be coached through the food preparation and service required.

1 class hour per week and 35 clock hours in special events as assigned throughout the semester.

Pre-/Co-Requisite: CUL 100

CUL 110 Baking Theory and Practice 3 credits

The fundamental principles and procedures for preparing baked goods, pastries, and desserts. Proper mixing and baking techniques, weights and measures, recipe conversion, terminology, function of ingredients, and baking science. Preparation and analysis of cookies, cakes, butter creams, icings, quick breads, yeast breads, and pastries. Appropriate for in-service professionals as well as cooks and students who desire further training in baking techniques. Lecture, demonstration, and laboratory methods insure that a firm base in both theory and practice of the baking arts is acquired.

Prerequisite: Eligibility for MTH 085, Eligibility for ENG 085 with a grade of C- or higher or appropriate test score on the English Placement Test

CUL 111 Sanitation and Safety 2 credit

A study of sanitation and safety problems encountered in the food service industry, with an emphasis on proper food handling techniques. A nationally recognized foodservice safety and sanitation exam is taken as part of the course.

CUL 115 Culinary Math 1 credit

This course is designed to teach culinary arts students to apply basic mathematics to specific applications in the foodservice industry. A brief review of basic math will be followed up by an introduction to US units of measure and metric conversions. Further subject matter will include weight/volume conversions, yield percentages, edible portion costs, recipe costing, and beverage calculations. Rules of thumb and common industry usages of the aforementioned skills will be explored.

Prerequisite: Eligibility for MTH 085 or adequate score on mathematics placement examination.

CUL 203 Nutrition for Food Service Professionals 3 credits

An introductory course in human nutrition for the culinary arts student, foodservice management student, and foodservice professional. The course content focuses on the science of human nutrition as it relates to personal health, food preparation, menu planning, recipe modification, and the marketing of nutritious menu items within a commercial or institutional foodservice setting.

2.5 Class Hours and 1.25 Lab Hours

Prerequisite: CUL 100

CUL 204 Professional Standards for the Foodservice Industry II 1 credit

Focus is on the role of personal development and professional behaviors in the foodservice industry. Students will be encouraged to seek appropriate employment or volunteer opportunities tailored to their individual interests and will acquire the tools necessary to achieving that goal. The course will emphasize such topics as locating potential employers, writing resumes and cover letters, conducting successful interviews and creating a working job search portfolio.

Prerequisite: Grade of C- or better in CUL 104

CUL 215 Foodservice Cost Control 3 credits

The fundamental principles and techniques underlying the cost control process of foodservice operations specifically within the context of food production and procurement. Topics include standards and controls, recipe costing, purchasing, food, beverage and cost percentages, foodservice financial statements, inventory control, and menu pricing.

Prerequisites: CUL 101 and CUL 115 with a C- or better.

CUL 230 A La Carte Cooking and Service 6 credits

Builds on fundamental cooking and service techniques within a restaurant venue. Students are guided through planning, producing, and serving menu items in an a la carte setting. Emphasis is placed on traditional American and International dishes. Speed and accuracy of production, plate presentation, communication, and efficient service are main elements of study. Students will participate in a capstone group project in which they design and execute an a la carte menu.

Prerequisites: Grade of C- or better in CUL 101/Passing score on NRAEF ServSafe Certification Exam

CUL 250 Banquet Cooking and Service 3 credits

An intensive study of both the technical and managerial skills used in banquet food production and service, with special emphasis on the planning and execution of a variety of special events. Topics covered include buffets, cocktail receptions, formal dinners, off-premises catering, and the control and service of wines and alcoholic beverages.

One lecture hour per week and 70 clock hours in special events as assigned throughout the semester.

Prerequisites: Grade of C- or better in HCA 130 and a passing score on the NRAEF ServSafe Certification Exam OR grades of C- or better in both CUL 101 and CUL 105 and a passing score on the NRAEF ServSafe Certification Exam.

DEAF STUDIES

See also AMERICAN SIGN LANGUAGE for related courses

DFS 101(C) Introduction to Deaf Studies 3 credits

This course introduces a variety of topics relating to deaf people in America. Topics include, but are not limited to, communication modes used by deaf people, educational philosophies, technology used in the deaf community, various professions in which one can work with deaf people, Deaf culture, and different perspectives about deaf people. Through readings, lectures, guest speakers, and class discussions, these topics and more will be discussed and myths will be dispelled.

DFS 103(C) Introduction to Language and Linguistics: How Language Works 3 credits

What is language? What is an accent? How do children learn language? These are some of the questions explored in this introductory course about language structure. This course investigates the nature of sounds, words, sentences, meanings, and conversations. The course applies learned concepts to other areas of language study: language acquisition, dialect variation, sign language, and language change. Emphasis is placed on collection and analysis of everyday language examples. (Same as ENG 103 and ANT 103)

Prerequisite: ENG 101

DFS 104(C) Deaf Culture 3 credits

This course provides an in-depth study of American Deaf culture and the American Deaf community from the multidisciplinary perspective. Language, values, traditions, social interactions, and diversity of membership are discussed through readings, guest speakers, lectures and class discussion.

Prerequisite: ENG 101

DFS 106(C) Deaf History 3 credits

This course presents the history of deaf people starting with the ancient world and progressing to present day America. Topics include the history of oppression and accomplishments of deaf people, various historical views of deaf people, the treatment of deaf people, the influence of European philosophy on the American deaf community, the rise of schools for the deaf and modern Deaf empowerment movement.

Prerequisite: ENG 101

DFS 108(C) Deaf History 3 credits

This course presents the history of deaf people starting with the ancient world and progressing to present day America. Topics include the history of oppression and accomplishments of deaf people, various historical views of deaf people, the treatment of deaf people, the influence of European philosophy on the American deaf community, the rise of schools for the deaf and modern Deaf empowerment movement.

Prerequisite: ENG 101

DFS 204 Pre-Practicum in Deaf Studies 3 credits

This course will prepare students for their practicum experience and help lay the foundation for future employment in the field. Through a combination of lecture, class discussion, guest speakers, and professional readings, students will become acquainted with various professions that work with the deaf/hard-of-hearing population. This will culminate with the students' final plan for their subsequent practicum.

Prerequisites: ENG 101, DFS 101

DFS 205(C) Deaf Literature 3 credits

This course explores the rich literary works of deaf people and their experience. Various literary genres, such as novels, films, poetry and humor, are discussed and analyzed through readings, videotapes and lectures.

Prerequisites: ENG 102, ASL 201

DFS 213 Deaf Studies Practicum 3 credits

This course gives students the experience of working in the field with deaf/hard-of-hearing individuals in a supervised setting approved by the coordinator of Deaf Studies. Students will enhance their receptive and expressive skills in ASL as well as increase experience in the knowledge of Deaf culture. Students must complete 120 placement hours and attend a one-and-a-half-hour weekly seminar to discuss issues raised in the field. Placements include educational settings, independent living agencies and agencies that serve the deaf/hard-of-hearing population. CORE/SORI check may be required.

Prerequisite: DFS 204 (Pre-Practicum In Deaf Studies), ASL 201 and permission from the Deaf Studies Department Chair.

DEVELOPMENTAL DISABILITIES

DVD 110 Introduction to Developmental Disabilities 3 credits

Introduction to developmental disabilities such as mental retardation, autism, syndromes (e.g., Down syndrome, Fetal Alcohol syndrome), neurological, sensory, physical and health impairments, learning disabilities, and emotional and behavioral disorders. Incorporates a socio-political perspective (laws, legislation, court cases, and attitudes on the treatment of people with developmental disabilities.) Effective teaching and intervention strategies will be explored. Special attention will be devoted to addressing barriers to integration and the impact on the individual and his/her family. Students will explore their own beliefs and biases regarding people with disabilities and their possible role as change agents in society.

Prerequisite: ENG 101 eligible

DVD 210 Current Issues in Developmental Disabilities 3 credits

This course will address issues specific to working with individuals with developmental disabilities and mental retardation. The overarching theme is finding balance between the individual's right to self-determination and the health and safety of the people with whom we work. Students enrolled in this course will gain a deeper understanding and appreciation of issues that may have been presented in previous human service classes. In addition, they will further develop their skills in working with people with developmental disabilities as well as developing the skills needed to work with agencies, communities, and families. Topics covered in this class may include person centered thinking, teaching and learning, diversity, health and wellness, sexuality, human rights, grief and loss, and working with families.

Prerequisites: HSV 113, DVD 110, PSY 110

ECONOMICS

ECN 100(B) Introduction to Economics 3 credits

This course provides an introduction to the basic principles and processes of economic theory and analysis, as well as exploring applications to contemporary issues. This course also provides basic knowledge concerning the role, use, and interpretation of graphs and equations within economics. Fundamental topics and questions in both microeconomics and macroeconomics are presented to provide a broad background for understanding economic issues.

ECN 101(B) Introduction to Macroeconomics 3 credits

An introduction to the basic principles and processes of macroeconomics, including theories of the determinants of output, unemployment and inflation: the composition and role of fiscal and monetary policy, and interna-

tional trade and finance. Theories are used to develop and understanding and analysis of current economic issues and policies.

Prerequisite: ECN 100 with a grade of C- or better or eligible for MTH 095

ECN 102(B) Introduction to Microeconomics 3 credits

An introduction to basic principles, processes, and applications of microeconomics: how a market-based capitalist system determines what products are produced, how they are produced, and the way in which the benefits are distributed. Topics include supply and demand analysis for products and for factors of production; production functions and costs; production and pricing of output within different industry structures; efficiency, equity, international trade, externalities and public goods.

Prerequisite: ECN 100 with a grade of C- or eligible for MTH 095

ECN 105(B) Introduction to Political Economy 3 credits

This course will explore the topic of political economy at an introductory level. Political economy is the study of economic systems, institutions, and outcomes from the perspective of who gains and loses. In other words, political economy explores how distribution and power affect economic outcomes. This course provides a survey of the history of political economy: Adam Smith's advocacy of free markets; Karl Marx's critiques of capitalism, and Keynes's ideas to bring capitalist economies out of the Great Depression, to name a few. Additionally, this course takes a critical look at American capitalism from contrasting theoretical perspectives, exploring how the interaction of political, social, and cultural forces impacts economic relationships. This allows for the development of a broader and more sophisticated perspective on how the American economy actually works, why it doesn't always work, who it works for and against, and why it changes over time. The course will also help students acquire a basic literacy in economics, by examining relevant concepts from microeconomics, macroeconomics, and international trade.

ECN 120(B) Ecological Economics 3 credits

Conventional (neoclassical) economics assumes that the economy can continue to grow forever, that well-being is determined only by market goods, and that people always act selfishly. Ecological economics in contrast, starts from the understanding that the economy is a sub-system of the global environment, and subject to its bio-physical limits. In addition, human well-being is determined by many other factors besides market goods: friendship, love, status, rights, freedom, etc. and that human behavior is far more complex than simple self-interest.

The primary insight of ecological economics is that the human economy is part of the global environmental system. Ecological economics situates human activity within the environment, and the study of the natural environment includes human interests and activities. Ecological economics is a systems approach with a global perspective on human resource use,

economic development, and the environment. Ecological economics is concerned not only, like other economists, with efficiency and equity, but also with environmental and social sustainability.

This course provides a historical overview of various schools of economic thought, presents the major principles required to fuse ecology with economics, and helps students to analyze economic policies under the lens of ecological reality. Particular attention is paid to economic growth theory and policy as it pertains to the sustainability of human society and management of natural resources. This is a transdisciplinary course, incorporating relevant principles and practices from political science, economics, psychology, philosophy, the natural sciences and physics.

Prerequisite: Any ECN course with a passing grade of C- or eligible for MTH 095, or by permission of instructor.

ECN 150(B) Topics in Economics 3 credits

This course offers students the opportunity to explore and examine a specific area or issue within economics. The specific topic to be studied may change each time the course is offered.

Prerequisite: Completion of any ECN course with a passing grade of C- or eligible for MTH 095 or others appropriate to the topic, which will be announced each time the course is offered.

ECN 250(B) Topics in Economics 3 credits

In this course, students will survey the literature and use primary source materials to explore a contemporary and/or historical topic in Economics. The students will be expected to complete a research project. The specific topic to be studied may change each time the course is offered.

Prerequisites: Completion of any ECN course with a passing grade of C- and ENG 101 and others appropriate to the topic, which will be announced each time the course is offered.

EDUCATION

EDU 100 Education in America 3 credits

An introduction to the field of education designed to stimulate intelligent, critical, and reflective analysis of the nature and value of teaching and learning. Historical, philosophical, social and political issues as well as current standards and trends in education are reviewed. National and global issues as they impact education will be explored. Emphasis is placed on the discovery of personal values, attitudes and attributes that contribute to the development of professional behavior and disposition. Teacher requirements as well as related career paths are explored. FS: 10-hour field study required.

EDU 101 Early Childhood Programs 3 credits

An introduction to early education and care for young children. Included are the history and philosophies that influence programs for young children today. Philosophies and programs studied include: Piaget, Erickson, Vygotsky, Gardner, Developmentally Appropriate Practice, Inclusion, and Center Based Child Care, Montessori, Reggio Emilia. A 20-hour field study, in an inclusive setting for young children, will be required.

Prerequisite: ENG 101 eligibility

EDU 104 Child Development and Behavior 3 credits

Provides an understanding of the characteristics and developmental stages of young children. Physical, social, emotional and intellectual growth ranging from prenatal to 8 years of age is explored. Provides insight into the feelings and behavior of young children through observations and participation in group activities.

Prerequisite: ENG 101 eligibility

EDU 120 Guiding Children's Behavior 3 credits

This course is designed as an introduction to strategies in guiding children's behavior in the classroom. The focus of the class will be on the prevention of behavior problems through appropriate teaching practices, classroom design, class expectations and social interactions.

Prerequisites: EDU 104 with a grade of C or better and ENG 101 eligibility

EDU 130 Young Children and Computers 1 credit

Provides the knowledge and skills to create a healthy technological computer environment for 3- to 8-year olds. "Hands-on" experience evaluating developmentally appropriate software and multimedia. Provides insight into the cognitive and social benefits of integrating computer technology into early childhood programs.

EDU 150 Topics in Education 3 credits

A survey of current early childhood education literature and resource materials that explore topics in the field. The focus of the course may change each semester. Students will be expected to complete a research product.

EDU 175 MTEL-CLS Test Preparation 3 credits

Designed for students planning to become teachers and who will be transferring to four-year institutions. The course will prepare them to take the required Communication and Literacy Skills portion of the Massachusetts Test for Educator Licensure (MTEL). The objective of the course is to offer an intensive experience to acquaint students with the types of material and questions that will be on the test, to teach students appropriate strategies,

and to provide students with practice exercises and sample questions. Students will have an opportunity to take a sample MTEL test at the end of the course. Materials distributed in class may also be used after the course to review for the actual test.

Prerequisite: ENG 102

EDU 203 Health, Safety, and Nutrition for Young Children 3 credits

This course will provide students with an understanding of a “healthy” developmentally appropriate and inclusive environment for young children. An emphasis will be placed on current trends and definition of “wellness” including, nutrition, physical and emotional health, lifestyle, and the need for physical activity, for children and families. Students will become familiar with local, state, and federal programs and agencies which promote and support the “wellness” of today’s diverse families. The Massachusetts Early Childhood Standards will be incorporated into the course content.

Prerequisites: EDU 104 with a grade of C or better and ENG 101 eligibility

EDU 208 Children with Disabilities in the Educational Setting 3 credits

This course provides a survey of the unique needs of children with disabilities and “at-risk” students within the educational context. An emphasis will be placed on understanding the origin and characteristics of specific disabilities, and development of collaborative intervention strategies that meet the needs of all children. A 20-hour service learning unit in an inclusive educational setting is required.

Prerequisites: EDU 104 with a grade of C or better and ENG 101 eligibility

EDU 209 Inclusionary Practices in Early Childhood Education 3 credits

This course is designed to give students practical application of teaching techniques in learning accommodations for inclusion of all children in the early childhood classroom. Emphasis will be placed on inclusionary practices, antibias curriculum, and cultural competency. This course provides students with applied knowledge of the scope and range of support services available to students with disabilities, who are included in early childhood educational settings.

Prerequisites: A grade of C or better in EDU 101, EDU 104, EDU 208, EDU 210; and ENG 102,

EDU 210 Curriculum in Early Education 4 credits

Emphasizes how children learn within a developmentally appropriate setting. Students will use a thematic approach in designing an antibias curriculum in alignment with the Massachusetts Guidelines for Preschool Learning

Experiences. Content areas to be explored include Language and Literacy, Science, Math, Blocks, Creative Arts, and Dramatic Play in an inclusive classroom setting. These concepts will be applied in a laboratory based experience that will include written lesson plans, student-made materials and participatory workshops.

Prerequisite: EDU 104 with a grade C or better and ENG 101

EDU 213 Student Teaching Practicum and Seminar 6 credits

Practicum: This course is a full semester internship consisting of a minimum of 150 classroom contact hours in which student teachers will experience team-teaching at an inclusive early childhood setting for children between the ages of 2.9 and 5.0 years. Student teachers will apply knowledge and skills developed in previous coursework to the practice of teaching. They are involved with developing and implementing curricula, assessing child development, utilizing classroom management strategies, and developing interpersonal relationships between staff, children, families and communities. 15 practicum hrs/wk.

Seminar: The seminar portion of this course provides an opportunity for self-evaluations, guided discussions, problem solving, and reflection as it pertains to the student teacher’s practicum experience. 1.5 seminar hrs/wk

Note: In order to do student teaching, students must be enrolled in either the M026, M027 Early Childhood Program and must meet the general admission requirements of the College. In addition, applicants must meet admission requirements specified by the department. However, admission to the education program does not insure a practicum placement. Prior to obtaining a practicum assignment, records of students will be subject to review pursuant to the Criminal Record Information Act, Massachusetts General Laws, Chapter 6, Sections, 172-178, and Massachusetts General Laws, Chapter 28A, Section 1, et seq., and regulations promulgated pursuant to such statutes. Students should register for EDU 213 during the priority-registration period in order to insure that the criminal records check (CORI) is received by the field placement site prior to the first day of the semester. Students who register late and/or whose CORI paperwork is not received may not be able to student teach. 1.5 lecture hours and 15 laboratory hours

Additional Course Fee: \$15.00 Malpractice Insurance (The fee is subject to change.)

Prerequisites: Completion of 30 credits that includes EDU 100, 101, 104, 208, 210, ENG 101 & 102 passed with a ‘C’ or higher, a GPA of 2.7, prerequisites or co-requisites EDU 120 and EDU 218, and permission of practicum supervisor.

EDU 217 Infant and Toddler Development, Learning and Care 4 credits

An introduction to the early education and care principles and practices that support development and learning for children ages birth-36 months. Students will review and design curricula that incorporate a relationship-based approach and support developmentally appropriate experiences across all developmental domains. Course content and assignments will align with the Massachusetts Early Learning Guidelines for Infants and Toddlers set forth by the Massachusetts Department of Early Education and Care. Students will review, assess, and create educational plans and materials for the social, emotional, language/communication, cognitive, fine motor, and gross motor areas of development.

Prerequisites: EDU 104, EDU 101 each with a grade of "C" or better, and ENG 101 eligibility

EDU 218 Assessment, Observation, and Documentation 3 credits

This course focuses on the basic principles and practices of effective assessment for classroom teachers. Students will examine formal and informal methods for assessment and documentation. During this course students will use evaluation and record-keeping tools, interpret results, and use assessment information to inform the teaching and learning process to support effective instruction. Strategies that are appropriate for various educational settings will be discussed, as well as the practical application and ethical use of assessment information.

Prerequisites: Satisfactory completion of 30 credits of work (sophomore standing) that includes EDU 100, 101, 104, 208, 210. All EDU courses with a grade of C or better and ENG 102.

EDU 220 Day Care Policy and Staff Development 3 credits

An in-depth review of the current Standards of Licensure of Day Care in Massachusetts. Federal and state laws and policies regarding child care are studied. A variety of models of staff recruitment, development and staff supervision are presented, as well as effective methods in parent relationships and an understanding of parents rights, developing crisis intervention strategies, making social services referrals, providing transportation, and reviewing state and federal health care policy and procedures.

Prerequisite: EEC Lead Teacher Certified
Co-requisite: Employment in a licensed day care facility (working directly with preschool-aged children for a minimum of 12 hours per week)

EDU 230 Day Care Administration 3 credits

A career course leading to Massachusetts Department of Early Education and Care (DEEC) certification as Director I. Includes different organizational structures, fiscal affairs, program management, development, evaluation procedures, and public relations. Covers how to provide nutritional programs and

reviews state and federal health care policies and procedures.

Prerequisite: DEEC Lead Teacher Certified
Co-requisite: Employment in a licensed child care facility working directly with preschool-aged children for a minimum of twelve hours per week.

EDU 268 Computer Technology in Education (Pre K - 6) 3 credits

Provides students with the knowledge and understanding of theoretical and practical issues of technology being applied by children, preschool through grade 6. Appropriate software will be examined, educational practices of the internet explored, and direct contact with existing educational programs will be experienced.

Prerequisites: EDU 104 with a grade of C or better (sophomore status recommended) and ENG 101 eligibility

EDU 271 Language and Literacy 3 credits

This course addresses language development and literacy for preschool and elementary children. Students will develop knowledge of language development and reading acquisition, and an awareness of the major components of reading such as phonics, vocabulary, children's background knowledge, fluency, comprehension strategies, and motivation, and how they are integrated in fluent reading. Students will examine literacy in the 21st Century, learn how to work with young readers and writers, explore ways to support reading and writing instruction, and practice procedures that can be used in PreK-6 classrooms.

Prerequisite: EDU 104 with a C or better and ENG 101

ENGINEERING

EGR 109 Introduction to Electronic Digital Circuits with Verilog 4 credits

A treatment of digital logic as it applies to electronic circuits. Topics include Boolean logic, logic gates, combinational and sequential devices and the simulation language Verilog. Students will be required to write Verilog programs.

Prerequisite: Math 104 or adequate score on MPE

EGR 110(D) Introduction to Robotics I 4 credits

Explore the multidisciplinary world of robotics, and its relevance to current humanitarian, social, and environmental concerns. Modeling the fields of science and engineering, this class will be based on teamwork and cooperative problem solving in a supportive, hands on, laboratory environment. Solutions to a series of challenges will be designed, constructed, tested and revised by students working together in groups. A standard, modular, mobile robotics system will be used to design and construct robots capable of car-

rying out a single task or multiple tasks related to a variety of applications. The role of science, engineering and technology in modern society will also be explored. (Same as SEM 110.)

Prerequisite: None. *Additional Course Fee:* \$50 Robotics fee (The fee is subject to change.)

EGR 111(D) Introduction to Robotics II 4 credits

As a continuation of EGR/SEM 110, this class will be based on teamwork and cooperative problem solving in a supportive, hands on, laboratory environment. Solutions to a series of challenges will be designed, constructed, tested and revised by students working together in groups. Robots will be based on a standard, modular, mobile robotics system with the addition of sensors designed and built by students. A text-based language (similar to C) will be used for programming the robots.

Prerequisite: EGR or SEM 110 or MTH 104 previously or concurrently. *Additional Course Fee:* \$50 Robotics fee (The fee is subject to change.)

EGR 113 Introduction to Engineering with C++ 3 credits

A brief discourse on the fields and functions of engineering, followed by an introduction to computer programming using C++ with emphasis on engineering applications. Topics are fundamentals of C++, including the binary and octal number systems, selection and repetition structures, arrays, functions, classes, class functions, input/output and pointers. Students will write programs to be run on the college's computers.

Prerequisite: MTH 104

EGR 117 Introduction to Engineering with Computer Applications 3 credits

Approximately two-thirds of the course, will be devoted to computer aided solid modeling using the SolidWorks software, with the other one-third focused on learning MATLAB, mathematics software. Emphasis will be on solving problems related to engineering, and students will be required to do their assignments using the college's microcomputer facilities.

Prerequisite: MTH 104 or adequate score on the Mathematics Placement Examination.

EGR 118 Introduction to Engineering with JAVA 4 credits

A brief discourse on the fields and functions of engineering followed by an in depth introduction to computer programming using Java with emphasis on engineering applications. Topics are decimal and binary numbers, selection and repetition structures, arrays, methods, classes, input/output and pointers. Students will write programs to be run on the college's computers.

Prerequisite: MTH 104 or adequate score on the Mathematics Placement Examination

EGR 205 Engineering Drawing and CAD 3 credits

Principles of engineering drawing including orthographic projection, conventions and design. Implementation of assigned problems will be by computer-aided drafting (CAD) and sketching.

Prerequisite: EGR 117

EGR 209 Dynamics 3 credits

This class teaches about kinetics and kinematics of particles and rigid bodies. It includes: Newton's laws, work-energy, and impulse-momentum principles, laws of linear and angular momentum, conservation of momentum, planar motion of rigid bodies, and introduction to vibration of single-degree-of-freedom systems.

Prerequisites: MTH 114 and EGR 221 either previously or concurrently.

EGR 221 Mechanics I - Statics 3 credits

A vector treatment of the equilibrium of particles and rigid bodies. Topics to be included are vector algebra, forces, moments, couples, equations of equilibrium, free body diagrams, graphical techniques, constraints, structures and mechanisms, friction, centroids and moments of inertia, and method of virtual work.

Prerequisites: MTH 114 previously or concurrently, and PHS 111

EGR 222 Mechanics II - Strength of Materials 3 credits

A study of the methods of determining stresses, strains, and deflections in engineering materials and structures that result from the application of physical loads.

Prerequisite: EGR 221

EGR 223 System Analysis (Circuit Analysis I) 4 credits

Covers time-Domain Analysis and techniques for writing and solving system dynamic equations with applications to electronics and other types of circuits. No prior knowledge of electricity or electronics is required.

Prerequisite: MTH 114 previously or concurrently, and PHS 111

EGR 224 System Analysis (Circuit Analysis II) 4 credits

A continuation of EGR 223 covering concepts relating to transfer functions, digital and Analog Solutions of System Equations, and Time and Frequency domain analysis techniques.

Prerequisite: EGR 223

EGR 250 Thermodynamics 3 credits

The classical thermodynamic principles and laws, including thermodynamic properties of substances, work, and heat; as well as the first and second laws of thermodynamics and their implications, including the concepts of entropy, reversible and irreversible processes, and cycles.

Prerequisites: MTH 114 previously or concurrently, and PHS 111

ELECTRONIC MEDIA

EMS 105 Introduction to Visual Media 3 credits

A systematic study of the ways in which images convey meaning as well as exposure to methods for creating images and meaning. Focuses on integrating theory with the practice of analyzing images or sequences of images from art photography, video, film, and electronic media. Provides a conceptual foundation for students majoring in communication, video, photography, graphics, marketing, art, theater, journalism, and other fields dealing with visual media.

EMS 110 Fundamentals of Video 3 credits

Focuses on video as a means of visual communication. Through screening and discussion of video and film, as well as group and individual projects in shooting, composition, editing, and sound, the course will cover such topics as how images create meaning, designing and planning a production, alternative styles of camerawork, use of sound, and effective editing. Emphasis is placed on understanding how video can be used to convey meaning in such areas as narrative, video art, multimedia, and documentary. No prior video experience is necessary, however a video camera is required.

EMS 111(C) Introduction to Electronic Media 3 credits

Designed to introduce students in any area of study to the fundamentals of using electronic media to communicate information and ideas. Covers the use of the computer for multimedia presentation, digital image-manipulation, and digital sound. Specific skills covered are: writing to communicate, digitizing and editing sound, using the scanner, digitizing video, and interactive multimedia authoring. Through group and individual projects, students work with a specific area of interest to see how information changes as it passes through different media. A final project allows each student to apply course skills to the creation of an interactive multimedia CDROM. No prior computer experience is necessary.

EMS 112(C) Topics in Electronic Media 3 credits

An in-depth exploration of a single topic in Electronic Media. Students work either together and independently in the research, design, and production of a relevant major media project within the class or in conjunction with another course. Please see the course booklet or the instructor for details on the current topic. (May be taken more than once.)

EMS 115 Introduction to Animation 3 credits

This course will introduce students of all disciplines to the art of animation, covering its history and evolution. Students will create short animation stories utilizing historical techniques as well as current digital techniques. Students will gain an understanding of how animation can be used effectively to communicate their ideas, and how it differs from other media as a tool for storytelling. Students will gain experience through group and individual animation projects.

Two, 2 ½ hour studios per week

EMS 118(C) Media for the Web 3 credits

Introduces students to the fundamentals of preparing images, sound, and video for use on the World Wide Web. The course focuses on how specific software packages such as Photoshop, Sound Edit 16, and Premiere are used to prepare media for delivery on the web. Emphasis will be placed on the effective use of visual design and communication principles in conveying information. Coursework will include projects in digital sound, digital imaging, and digital video.

EMS 124 (C) Digital Studio 3 credits

An introduction to the use of digital image-processing technology as an art medium. We will explore the basics of how images are created electronically using lens-based, scanner, and freehand acquisition, using both electronic and non-electronic materials. Individual and group projects will explore the richness of digital image-making. Emphasis will be placed on the fundamentals of effective visual design. In addition to learning image-processing software, scanning, and the use of the digital camera, we will discuss how the computer has changed the nature of image-making. Coursework will include a final portfolio of digital images. No computer experience is necessary.

EMS 201 Electronic Media Seminar 3 credits

This course provides students with an opportunity to pursue an area of electronic media beyond the introductory level and to gain skills in project and time management. Over the semester students will work independently on a major media project of their choice, meeting regularly with the instructor.

Prerequisite: A grade of C or better in EMS110 or EMS111 or permission of instructor.

EMS 202 Electronic Media Seminar II 3 credits

A continuation of EMS 201, providing additional opportunity to work independently in Electronic Media.

Prerequisite: A grade of C or better in EMS 201 or permission of instructor.

- EMS 203 Electronic Media Seminar III 3 credits**
- A continuation of EMS 202, providing additional opportunity to work independently in Electronic Media.
- Prerequisite: A grade of C or better in EMS 202 or permission of instructor.*
- EMS 204 Electronic Media Portfolio 4 credits**
- This course provides students with an opportunity to create a major media project that integrates various aspects of electronic media and that demonstrates the student's ability to work competently in the field. The creation of a portfolio of work accomplished while in the program is an integral part of the course as well as an oral defense before a portfolio committee. This course should be taken in the final semester.
- Prerequisites: Permission of instructor.*
- EMS 215 3-D Computer Animation 3 credits**
- This course provides a deeper study of animation techniques. Students will work on individual and group projects aimed at building on introductory animation concepts. In addition to producing more substantial animation studies, students will view, analyze and critique a stylistically varied collection of animations.
- Prerequisite: EMS 115*
- EMS 218(C) History and Criticism of Film 3 credits**
- A basic introduction to film studies. Covers film structure, both material and aesthetic, as well as the historical development of the film. Includes an overview of critical schools of thought in film theory and criticism.
- Prerequisite: ENG 102*
- EMS 225 (C) Great Film Directors 3 credits**
- An in-depth exploration of the cinematic work of one or more of the major film directors. Focus will be on developing an awareness of each director's aesthetic, cultural, and technical influence through a close examination of such elements as camera work, editing, lighting, sound, film theory, and include lecture, screenings, discussions, readings, and weekly writing.
- Prerequisite: ENG 101*
- EMS 266 Introduction to Designing for the Web 3 credits**
- Provides students with a solid understanding of the effective use of graphic design and communications theory in Web design. Student will acquire skills in HTML and Web design software with an emphasis on visual design and communication principles. Builds upon the technical and creative foundations developed in ART 259 or EMS 111. (Same as ART 266).
- Prerequisite: ART 265 or EMS 111 or permission of instructor*

ENGLISH

- ENG 085 Pre-College English I 6 credits**
- English 085, the first course in our developmental English sequence, engages under-prepared students in the intensive reading, writing, and critical thinking skills necessary for college success. Reading materials may include editorials, essays, memoirs, novels, and short stories. Emphasis will be on developing skills for reading comprehension and interpretation with the idea that close reading of a challenging text leads to critical thinking and analytical writing. Credits attempted for this course do not count toward the total credits required for graduation.
- Note: Students must pass ENG 095 with a grade of C- or better or earn appropriate scores on the English Placement Tests to register for ENG 101.*
- ENG 095 Pre-College English II 3 credits**
- English 095, the second course in our developmental English sequence, continues to build on skills of fluency, comprehension, and interpretation, with an increasing emphasis on analysis. English 095 seeks to help students go beyond personal narrative to engage with more complex academic discourse through intensive reading and writing of critical and creative texts. Reading materials may include editorials, essays, memoirs, novels, and short stories. In addition, students are introduced to rudimentary research skills of evaluating, integrating, and citing sources. Credits attempted in this course do not count towards the total credits required for graduation.
- Note: Students must pass ENG 095 with a grade of C- or better or earn appropriate scores on the English Placement Tests to register for ENG 101.*
- Prerequisite: ENG 085 with a C- or better; or appropriate Placement Test Scores.*
- ENG 101(A) College Composition I: Expository Writing and Research 3 credits**
- This course is the first half of the college composition sequence and focuses on expository writing, critical thinking, and research, with emphases on the following: critical reading and interpretation of nonfiction texts; engaging with and analyzing texts; using summary, paraphrase, and quotation; finding, evaluating and documenting sources; and writing with purpose. Students will produce approximately 3000 words of formal written work, including a documented research paper of at least 1250 words.
- 4 class hours*
- Prerequisite: Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.*

ENG 102(A) College Composition II: Writing about Literature 3 credits

This course is the second half of the first-year composition sequence and focuses on comprehending literary works, thinking critically, and writing analytically. The emphasis is on writing critically about fiction, poetry, and drama. Frequent short essays are assigned, amounting to a total of approximately 3000 words.

Prerequisite: English 101 with a grade of C- or higher

ENG 103(C) Introduction to Language and Linguistics: How Language Works 3 credits

What is language? What is an accent? How do children learn language? These are some of the questions explored in this introductory course about language structure. This course investigates the nature of sounds, words, sentences, meanings, and conversations. The course applies learned concepts to other areas of language study: language acquisition, dialect variation, sign language, and language change. Emphasis is placed on collection and analysis of everyday language examples. (Same as ANT 103 and DFS 103).

Prerequisite: ENG 101

ENG 104(A) College Composition I & II 6 credits

This course includes the College Composition I and II sequence and covers the ability to communicate with others, think critically, research, and comprehend works of non-fiction and literature. Emphasis is on expository writing and literary analysis, critical reading and interpretation of nonfiction texts, fiction, poetry and drama; engaging with and analyzing texts; using summary, paraphrase, and quotation; finding, evaluating and documenting sources; and writing with purpose. Students will produce approximately 6000 words of formal written work, including a documented research paper of at least 1250 words.

Prerequisites: Appropriate scores on English placement tests or C- or better in ENG 095 or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099.

ENG 201(C) Major British Writers I 3 credits

A study of major figures in English and Irish literature from their beginnings to the 18th century. Readings from the work of such writers as Chaucer, Marlowe, Spenser, Shakespeare, Donne, Milton, Dryden, Pope, and Fielding will be studied with a view toward understanding the human condition as well as aesthetic values.

Prerequisite: ENG 102

ENG 202(C) British Literature II 3 credits

English and Irish literature from the 18th century to the present. The works

of such poets as Wordsworth, Keats, Tennyson, Browning, and Yeats and such novelists as Jane Austen, Dickens, George Eliot, Conrad, and Lawrence will be read.

Prerequisite: ENG 102

ENG 203(C) Environmental Literature 3 credits

Today and throughout history, some of the greatest works of literature, culture, politics, and spirituality have been rooted in the earth (to use an earthly metaphor). This class will explore various forms of literature to seek a deeper appreciation of how the world's most engaging thinkers ì human and non-human ì have embraced the beauty of the world around us and pondered the awe-inspiring power of our environment.

Prerequisite: ENG 102

ENG 211(C) American Writers (I) 3 credits

This course may focus chronologically on such American writers as Poe, Hawthorne, Melville, Whitman, and Dickinson; or, it may be organized thematically on topics such as Puritan religious tradition (Bradford, Edwards, Hawthorne, Dickinson); attitudes toward the natural world (Cooper, Thoreau, Emerson); dissonant voices (Stowe, Thoreau, Twain, Whitman, Jacobs); or liberation and limitation (Jefferson, Douglas, Jacobs, Melville).

Prerequisite: ENG 102

ENG 212(C) American Writers (II) 3 credits

This course may focus chronologically on such American writers as Eliot, Frost, Hemingway, Faulkner, and O'Neill; or, it may be organized thematically on topics such as the city in literature (Yeziarska, Wharton, Dreiser, Crane, James); pioneers and immigrants (Cather, Rolvaag, Curran, Mangione); small town (Anderson, Robinson, Lewis, Cheever, Carver); dissonant voices (Baldwin, Kerouac, Cummings, Miller, Eliot); or Southern voices (Faulkner, Glasgow, O'Connor, Williams, Mason, Gaines).

Prerequisite: ENG 102

ENG 214(C) The Short Story 3 credits

The short story will be read as a source of enjoyment and of insight into universal human situations. Theme, style, and structure will also be discussed. Emphasis might be on the sense of place (From Chekhov's Russia to the American South of Faulkner and O'Connor), the international short story (Calvino, Gordimer, Kincaid, Trevor), stories from Latin America (Cortazar, Ortega, Borges, Garcia-Marquez), or contemporary American short fiction (Bobbie Ann Mason, Tobias Wolff, Raymond Carver).

Prerequisite: ENG 102

- ENG 215(C) Modern Poetry 3 credits**
- Provides both a grounding in the established “greats” (Yeats, Eliot, Frost, Stevens, Williams, and Lowell) and an exploration of selected contemporary poets. Emphasis is on the poem as an auditory as well as an intellectual experience. The aim is to provide an in-depth encounter not only with poems but also with other people who find good poetry exciting.
- Prerequisite:* ENG 102
- ENG 216(C) The Modern Novel 3 credits**
- We will study significant novels that explore aspects of modern society. Emphasis might be on American novels of the Twenties and Thirties (Fitzgerald, Cather, Glasgow, Faulkner, Wolfe, Steinbeck); experiments in British fiction (Forester, Joyce, Woolf, Lawrence); the ethnic American novel (Yeziarska, Tan, Morrison, Baldwin); the international novel (Camus, Garcia-Marquez, Mahfouz, Achebe, Kafka). Each semester the instructor will determine the focus.
- Prerequisite:* ENG 102
- ENG 217(C) Creative Writing 3 credits**
- Centers on weekly student writing of poems, short stories, plays, or personal essays. Specific projects will be determined by individual and group interests. Group discussion of works-in-process will help the individual to achieve a significant creative writing project for the semester. Examples of creative excellence will be read and discussed, with some attention to critical and aesthetic theory.
- Prerequisite:* ENG 102
- ENG 218(C) Advanced Writing 3 credits**
- Designed for transfer students planning to major in liberal arts as well as for others interested in developing writing skills in such nonfiction areas as literary criticism, the personal essay, and persuasive argument. Course work will emphasize student writing but will also include style analysis of a few works by major British and American writers.
- Prerequisite:* ENG 102
- ENG 223(C) Writing for the Professions 3 credits**
- Focuses on developing the specific, clear and lucid prose required in a professional writing environment. Students will attend to various types of writing that reflect the communication demanded of business, science, and other professional careers. Students will employ computer and multimedia technologies to prepare many of the assignments in the course. The semester will culminate in a major report that studies a particular problem that student groups or individuals have researched within their own disciplines.
- Prerequisite:* ENG 102

- ENG 224(C) Children’s Literature 3 credits**
- Students will apply techniques of critical analysis to works written for young readers. Students interested in sharpening the analytic skills they have developed in English 102 will find a rich field of inquiry in literature written for children, while those with an interest in psychology will find that analysis of course texts can deepen their understanding of human development. Future teachers will have the chance to build up a repertoire of texts to share with their own pupils, and students who have young children in their lives will learn to look at books they share with children from a new perspective. No matter what their specific interests, all students will have the opportunity to reflect back upon their own childhood reading experience as they revisit texts which were meaningful to them once upon a time.
- Prerequisite:* ENG 102
- ENG 226(C) Introduction to Asian American Literature 3 credits**
- Designed to explore cultural perspectives through Asian-American literature in the context of American experience. The course will sample well-known works of fiction, drama, or poetry by Asian Americans and encourage the students to reflect on their own cultures and values through the unique perspectives of these writers. Representative works and writers may include Amy Tan, Chang-Rae Lee, Ha Jin, Lisa See, Gish Jen, Maxine H. Kingston, Shawn Wong, as well as David H. Hwang, Wakako Yamauchia, and Velina H. Houston. Students can expect to leave this class with not only greater knowledge of Asian America but also a deeper understanding of what it means to be a pluralistic society.
- Prerequisite:* ENG 102
- ENG 227(C) Creative Writing for Theater 3 credits**
- Creative writing exercises and class activities will help students develop their own projects, such as writing short plays, screenplays, or monologues, or scripting and shooting a short movie. Students will learn about the elements of drama by analyzing the structure and dialogue of a few selected plays, and by actively exploring these ideas in their own writing. Student work will be considered for production. (Same as THE 227).
- Prerequisite:* ENG 102
- ENG 230(C) Current Themes in Literature 3 credits**
- Begins with a contemporary work that embodies a theme of current interest, and aims at developing a perspective on that theme as it has been explored in a representative selection of literature.
- Prerequisite:* ENG 102 previously or concurrently

ENG 231(C) Creative Nonfiction 3 credits

Creative nonfiction relies on truth, on the facts of the world and/or the self as the writer finds - and transforms - them. It is much like fiction in its reliance on the scene, dialogue, and storytelling. Yet it can take many forms, such as the personal essay, literary memoir, the travel essay, literary journalism, literary biography, etc. This course will investigate the basic principles of the form, concentrating on the principles of literary journalism and personal essay, and give students the opportunity to produce original works of creative nonfiction. The course may also deal with ethical and critical issues related to truth, perception, memory, and subjectivity.

Prerequisite: ENG 102

ENG 232(C) Topics in Creative Writing 3 credits

Explores in depth a specific genre (such as poetry, short fiction, or the prose-poem) or topic (such as the style of a particular ethnicity, culture or movement) in creative writing. Students will analyze works in the chosen genre/topic, paying close attention to the stylistic and structural choices writers make as well as the reasons for these choices. Students will read and discuss established works as models, practicing writing techniques specific to the chosen genre/topics through in-class and out-of-class exercises and activities. Group discussion of works in progress will help students create a significant creative writing project or portfolio in the chosen genre/topic.

Prerequisite: English 102 (must pass English 102 prior to enrolling in this course)

ENG 235(C) African American Literature 3 credits

This survey course introduces the student to the literature that writers of African and African American heritage created from its beginning in Colonial America to the present time. The course will examine a number of writers, genres, and themes. It will also analyze the historic, socio-political, and cultural forces which helped to shape the African American experience and will emphasize interlocking race, gender, and class perspectives whenever applicable for analyzing literary works. Representative works and writers may include Phillis Wheatley, Frederick Douglass, Harriet Jacobs, Sojourner Truth, Frances E.W. Harper, Charles Chesnutt, W.E.B. DuBois, Paul Laurence Dunbar, James Weldon Johnson, Zora Neale Hurston, Richard Wright, Langston Hughes, Ann Petry, James Baldwin, Malcolm X, Gwendolyn Brooks, Toni Morrison, Audre Lorde, Alice Walker, August Wilson, and Walter Mosley.

Prerequisite: ENG 102

ENG 237(C) Shakespeare 3 credits

A creative analysis of Shakespeare's plays with some consideration given to the sonnets. A concern for "the man and his times" will supplement the analysis of his comedies, histories, and tragedies. (Same as THE 237)

Prerequisite: ENG 102

ENG 240 A Great Novel 1 credit

Focuses on one major novel only, a long work that reveals an entire culture and explores a broad range of human potentialities. Classes meet once a week for discussion.

Prerequisite: ENG 102

ENG 245(C) Women and Literature 3 credits

Writing by women and images of women in literature. Specific subject varies from semester to semester, but readings include both contemporary and classic works. Some possible subjects: women as fictional heroes, images of motherhood in literature, poetry by women, Black women writers, women's autobiographical writing, and great female roles in drama. Attention paid in background lectures to recent feminist literary criticism and historical research.

Prerequisite: ENG 102

ENG 250(C) The World in Literature 3 credits

Cultural issues are explored through reading and discussion of significant works that reveal common themes in world literature (such as nature, childhood, gender, conflict, alienation and assimilation, identity, and self-image). Emphasis is on relativity of perspective. May include works from Asia, Africa, Oceania, the Americas, and Europe, with emphasis on non Euro-American literature.

Prerequisite: ENG 102

ENVIRONMENTAL SCIENCE AND TECHNOLOGY

ENV 115 Environmental Seminar I 1 credit

A series of guest speakers from industry, government, consulting, and education share their perspectives on current environmental problems and solutions. In addition, speakers will present career alternatives in environmental science and provide a forum for discussion with seminar participants.

ENV 120(D) Principles of Environmental Science I 4 credits

A study of the scientific principles and processes underlying the interrelationships between humans and the environment. Concepts used to evaluate problems and options available in dealing with population growth, wise use of natural resources, and environmental degradation and pollution are considered in this course. Major topics include the evolution of human-environment relationships; principles of matter and energy; structure, function, and dynamics of ecosystems; and water, food, agriculture, land wildlife and plant resources. Laboratory exercises include field experiences and computer simulations.

ENV 124(D)	The Natural History of New England	4 credits	<p>An introduction to the rich geologic history and the diverse natural flora and fauna of the region. New England possesses a great assortment of landforms and ecological systems in a relatively small geographic area. The geologic past included volcanoes, lava flows, collisions and divergences of continental plates, and most recently retreating glaciers. This newly renovated landscape made way for a succession of varied forest types and other ecosystems as the flora and fauna adapted to this newly warming and geologically overhauled environment. Geologic history of the New England, natural and human disturbance, forest succession, and the resulting shifting mosaic of the biotic community will be discussed. Field experiences require some walking over uneven terrain.</p>	<p>be a student project that emphasizes field investigation integrated with internet research.</p>
ENV 125	Mapping with Geographic Information Systems	3 credits	<p>This is an introductory course in Geographic Information Science (GIS). Geographic information systems are computer technologies for producing maps and discovering possible correlation between spatial data (e.g., natural resource data, census information, land use data, city planning records, epidemiological information, water quality figures, air quality figures, marketing statistics, etc.). Individuals from diverse disciplines are encouraged to enroll in this course which focuses on obtaining and creating digital data, performing elementary spatial analysis and producing graphical representations through the use of computer mapping software.</p>	ENV 140(D) Principles of Environmental Science II 4 credits
ENV 137(D)	Environmental Geology	4 credits	<p>The exploration of environmental geology, an applied science, will include the fundamentals of geologic processes and the Earth's natural resources, with an emphasis on the human interaction within the geologic environment. Lecture topics included in this course: general overview of rocks and minerals, geologic hazards (e.g., earthquakes, volcanoes, mass wasting, flooding), soil formation and documentation, geological landscapes (e.g., glacial deposits, lava flows, and floodplains), groundwater, waste management, land-use planning and current events in geology. Laboratory exercises, which are intended to reinforce the lecture topics, will include: field visits to local geologic points of interest, computer simulations, and hands-on investigations.</p>	<p>This course focuses on the biological, chemical, and physical aspects of environmental pollution and considers the relationships between environment and society. Major topics include mineral and energy resources; pesticides; environment and human health; solid and hazardous wastes; and air, water, and land pollution. Environmental ethics; environment and law; and the relationships between the environment, economics and government are also covered. Laboratory exercises include field experiences and computer simulations.</p>
ENV 138(D)	Soil and the Environment	4 credits	<p>This course is an overview of the major principles and techniques required for the detailed investigation and documentation of soil conditions. Consideration is given to the physical and chemical properties of soil development. Topics to be covered include soil forming factors, soil profile genesis, layer and horizon nomenclature, soil texture and the applications of soil science to scientific studies. Lecture and field/laboratory exercises are designed to introduce the student to the qualitative and quantitative methods of the soil assessment process. A major component of this course will</p>	ENV 150 Current Topics in Environmental Studies 3 credits
				<p>This course is designed to explore contemporary topics in environmental studies. Social, cultural, and scientific issues as related to the environment will be examined. Example subject matter covered in the course may include: endangered species, biodiversity, environmental health, environmental law, forest and wild life management, conservation biology, global environmental change, ecosystem restoration, renewable energy, and green business.</p>
				ENV 202 Environmental Seminar II 1 credit
				<p>Students research and critically analyze selected case studies in environmental issues. Peer review and class discussion provides an opportunity for critical thinking and interpersonal communication.</p> <p><i>Prerequisite:</i> ENV 115</p>
				ENV 214 Climate Change 3 credits
				<p>An introduction to the science of climate change including the physical properties of the atmosphere, natural and anthropogenic factors that influence climate, and patterns of climate change past and present. Explores the expanding field of climate research from extracting CO₂ trapped in polar ice to measuring tree rings to mapping shifting ranges of plant and animal populations. Each student will choose a research focus for the semester, explore the primary scientific literature for that topic, and make a presentation to the class in the latter part of the semester.</p> <p><i>Prerequisite:</i> One semester of any laboratory science.</p>

ENV 230 Principles of Environmental Site Assessment 3 credits

This course is an overview of the major principles and techniques required for the assessment and reporting of site conditions utilized to identify any potential environmental problems. Consideration is given to the sources of pollution and the current methods available (aerial photo-interpretation, GIS, soil maps, vegetation identification) to measure and assess extent of pollution. Classroom lecture is designed to introduce the student to qualitative and quantitative methods of the site assessment process. A major component of this course is a groundwater simulation project which emphasizes the team approach to solving complex environmental problems.

Prerequisite: ENV 120, ENV 140

Co-requisite: ENV 137 (concurrently)

ENV 253(D) Aquatic Ecology and Pollution 4 credits

A study of the aquatic environment as an ecosystem with emphasis on responses to pollution. The physical, chemical, and biological parameters of the aquatic ecosystem are systematically surveyed. Eutrophication as a natural process of succession in lentic systems is described and interrelationships within the lake are defined. Responses of lakes and streams to both natural enrichment and anthropogenic pollution are explored. In-lake restoration and watershed management are investigated as technologies to restore and prevent water quality degradation. Laboratory investigations and field studies stress collection, identification, classification, and analysis of biotic and abiotic ecosystem components as a means of assessing water quality and pollution effects. Students will design and conduct a small scale water quality sampling/analysis program.

Prerequisite: 1 semester of environmental science or biology.

ENV 270 Environmental Internship 3 credits

A supervised field training program with an environmental protection and control agency, environmental consulting company, environmental laboratory, environmental education center, or industry providing experience in the performance of tasks appropriate to the environmental technician.

Prerequisites: CHM 102, CHM 114, or CHM 124 previously or concurrently; ENV 140; and permission of program coordinator

EARTH SCIENCE

ESC 111(D) Introduction to Meteorology 4 credits

covers the composition and structure of the atmosphere, the flows of energy to, from and through the atmosphere, and the resulting motions produced from small to planetary scales. The physical principles of atmospheric phenomena are stressed in the understanding of weather's impact on humans,

particularly with severe weather. Methods of analysis are developed through the study of current weather as meteorological data are delivered via the Internet.

Prerequisite: MTH 075 with a C- or better, or adequate score on the Mathematics Placement Exam

ESC 120(D) Introduction to Geology: Earth Processes 4 credits

An introduction to the scientific concepts that provide an explanation for the formation of mountains, continents, and oceans. Topics include plate tectonic theory, minerals and mineral formation, rock cycle, weathering and erosion, geologic time, historical geology, volcanoes and earthquakes, rivers and streams, glaciers, landscapes, and ocean basins.

ESC 130(D) Introduction to Oceanography 4 credits

An introduction to the scientific concepts that provide an explanation to the formation of oceans and the nature of the global marine environment. Topics include seafloor dynamics and plate tectonic theory, the origin of oceans basins, the earth beneath the sea, marine sedimentation, properties of seawater, wind and ocean circulation El Nino weather patterns, waves and tides, beaches and coasts, coastal habitats, marine ecology and coral reefs.

ENGLISH AS A SECOND LANGUAGE

ESL 100 Basic English Skills for the Deaf 6 credits

This course is designed to help make the transition from high school basic English reading and writing to preparatory ENG 097/098 courses offered at the College. (The course is offered within the English as a Second Language Program but does not follow the tracking of other ESL classes. Students who would like to attempt to bypass ENG 097/098 to enter ENG 101 after completing this course would need to retake and successfully pass the Computerized Placement Test (CPT) in both reading and sentence skills.) Students are introduced to a variety of reading materials and are provided opportunities for learning strategies for improving their reading comprehension. Students are also given opportunities to improve their writing skills through improved understanding of the basic rules of grammar and the fundamentals of good paragraph writing. This course is for students whose primary language is American Sign Language, and will be taught in ASL rather than spoken English.

Prerequisite: Appropriate score on the English Placement Tests (less than 35 on the reading and less than 40 on the sentence skills of the CPT); fluency in American Sign Language

ESL 108 Speaking and Listening 2 6 credits

This course develops the English language learners' abilities to initiate and participate in conversations about personal information, daily activities, future plans, and past activities. The students will learn to follow more lengthy

stretches of speech in basic English and will learn more high-frequency vocabulary.

Prerequisite: Placement test

ESL 110 Reading and Writing 2 6 credits

Students strengthen reading strategies for increasing comprehension, vocabulary and reading enjoyment and will practice basic paragraph structure. Emphasis in reading is on understanding simple material with the aid of a bilingual dictionary and on recognizing the main idea of a paragraph. Students will select and report on supplemental reading. Emphasis in writing is on basic paragraph structure in descriptive and narrative writing.

Prerequisite: Placement test

ESL 130 Speaking and Listening 3 3 credits

Students will continue to refine their understanding and production of spoken English. Rules for speaking in social situations will be introduced, and skills for effective listening will be developed. Students will learn to present and support their ideas and opinions and to respond to those of others using different levels of formality. They will also learn to organize and give short (3-5 minutes), planned oral presentations.

Prerequisite: C- or above in ESL 108 or Placement Test

ESL 131 Reading and Writing 3 6 credits

Students will develop reading strategies in English such as previewing, skimming, scanning, identifying and stating main ideas, drawing inferences, and predicting outcomes. Students will select and report on supplemental readings. They will study techniques to advance their comprehension and production of written English. Students will master controlled, focused paragraphs and learn to write a short composition.

Prerequisite: C- or above in ESL 110 or Placement Test

ESL 140 Speaking and Listening 4 3 credits

Students will continue to develop their abilities to initiate and sustain a conversation with English speakers on a variety of topics, to present and support ideas and opinions, and to summarize and paraphrase. Students will organize and deliver oral presentations and will learn note taking skills for academic lectures.

Prerequisite: C- or above in ESL 130 or Placement Test

ESL 141 Reading and Writing 4 6 credits

Students will continue to develop strategies for increasing comprehension of academic reading material in English. Emphasis is on paraphrasing and summarizing written material, recognizing cohesive relationships (main

idea, thesis, supporting details, and new information), and writing controlled, focused essays using a variety of rhetorical modes and level 4 structures. Students will read and report on adapted and unadapted literature (short story or novel), newspaper and journal articles, textbook excerpts, and essays.

Prerequisite: C- or above in ESL 131 or Placement Test

ESL 150 Speaking and Listening 5 3 credits

This course aims to improve the students' abilities to converse in English on selected topics of current interest. Students will participate in extended conversations and discussions, will organize and give oral presentations on a variety of topics, and will hear and outline academic lectures.

Prerequisite: C- or above in ESL 140 or Placement Test

ESL 151 Reading and Writing 5 6 credits

This course emphasizes the integration of reading and writing skills at an advanced level. It has a dual purpose: to help English Language Learners develop reading and writing fluency in English for academic purposes and for life in the United States. Emphasis in reading is on reading critically a variety of unadapted materials including textbook style excerpts, essays, newspaper and journal articles, short stories and short novels. Emphasis in writing is on essays of three to five pages using a variety of rhetorical modes and level 5 structures. Students will continue to develop their abilities to summarize, paraphrase, and synthesize course materials. ;

Prerequisite: C- or above in ESL 141 or Placement Test

ESL 152 Topics in ESL 3 credits

Emphasizes the integration of English skills through an in-depth examination of a theme. Develops critical reading, writing, grammar, and/or oral production/comprehension skills in English Language Learners while enhancing students' understanding of the subject matter. Students will be immersed in the selected theme through a wide variety of sources that may include textbooks, newspapers, fiction, essays, oral interviews, film, or community events.

Prerequisite: Varying depending on the specific theme and class requirements

ESL 153 ESL for Renewable Energy Technology 3 credits

This is a course that prepares English Language Learners to enter the renewable energy workforce. This course will emphasize the integration of reading and communication skills at the advanced level through in-depth examination of the topic. Students will be immersed in the topic of renewable energy resources through discussion and oral presentations based on the reading of textbooks, newspapers, and essays as well as interviews, films, and community events.

Prerequisite: ESL 141 or ESL Placement Test

ESL 168 Grammar 2 3 credits

This course provides reinforcement of and focus on English grammar structures appropriate for Level 2 English Language Learners. The class will focus on an understanding of the present, past, and future tenses, prepositional phrases, count/non-count nouns, and other Level 2 structures.

Prerequisite: Placement Test

ESL 169 Grammar 3 3 credits

This course provides reinforcement and focus on English grammar structures appropriate for Level 3 English Language Learners. The class will focus on an understanding of the present perfect and present perfect continuous tenses, phrases and clauses, adverbs, modals, and other Level 3 structures.

Prerequisite: C- or above in ESL 168 or Placement Test

ESL 170 Grammar 4 3 credits

This course provides reinforcement and focus on English grammar structures appropriate for Level 4 English Language Learners. The class will focus on an understanding of the past perfect and past perfect continuous tenses, adjective clauses, past modals, and other Level 4 structures.

Prerequisite: C- or above in ESL 169 or Placement Test

ESL 171 Grammar 5 3 credits

This course provides reinforcement and focus on English grammar structures appropriate for Level 5 English Language Learners. The class will focus on an understanding of the past perfect verb tenses, gerunds and infinitives, reported speech, passive voice, untrue conditionals, and other Level 5 structures.

Prerequisite: C- or above in ESL 170 or Placement Test.

ESL 180 Pronunciation 3 credits

Helps non-native English speakers improve their pronunciation of spoken English. Emphasis is on the specific individual sounds of English and also on the stress, rhythm, and intonation of the spoken language. Students will analyze the speech of native speakers and their own speech in order to improve comprehension and comprehensibility.

Prerequisites: C- or above in ESL 108 or Placement Test

FINANCE

FIN 222 Principles of Financial Management 3 credits

The financial management of the business firm: financial analysis, financial forecasting, financing instruments, the time value of money, valuation and rates of return, cost of capital, and capital budgeting decisions.

Prerequisite: ACC 111

FRENCH

FRH 101 Elementary French 1 3 credits

Introduction to French through a conversational approach with emphasis on current grammatical expression in speaking and writing. Conducted mostly in French. To take FRH 101 for credit, a student shall have successfully completed no more than two High School years of study in that language. This policy may be waived for students who took their High School language course three or more years before they sign up for FRH 101.

FRH 102 Elementary French 2 3 credits

A continuation of Elementary French.

Prerequisite: French 101 or 2 years of High School French

FRH 105 Intensive Elementary French 6 credits

Covers the course content of FRH 101 and FRH 102 (Elementary French) in one semester.

FRH 201(C) Intermediate French 3 credit

Strengthens vocabulary, idiomatic expression, and control of grammar. Selected readings and compositions supplement the formal study of the language. Conducted in French.

FRH 202(C) Intermediate French 3 credit

Strengthens vocabulary, idiomatic expression, and control of grammar. Selected readings and compositions supplement the formal study of the language. Conducted in French.

Prerequisite: FRH 102 or minimum level of achievement on Placement Test

FRH 205(C) Intensive Intermediate French 6 credits

Strengthens vocabulary, idiomatic expression, and control of grammar. Selected readings and compositions supplement the formal study of the language. Conducted in French.

Prerequisite: FRH 102 or minimum level of achievement on Placement Test

FRH 206(C) Topics in French 3 credits

An examination, in English, of French-speaking cultures that are of special interest to the Humanities or Hospitality and Tourism student. In different semesters, this course will focus on European or non-European (North American, Caribbean, South Pacific, African and Asian) Francophone cultures.

Each semester, specific geographical areas will be explored to reveal the rich cultural diversity of the French-speaking world. Aspects to be studied include history, symbols, human and natural resources, family and social structure, religion and philosophy, education, fine arts and cultural achievements, economics and industry, politics and government, science, sports and games, national foods, and national language. Examples from literature, music, art, and film are used to illustrate topics under discussion.

Prerequisite: ENG 101

FRH 207(C) Advanced French Conversation 3 credits

Develops speaking and listening skills in diverse social settings. This course teaches practical strategies for effective communication in French through study of conversations by native French speakers. Emphasis is on the study and practice of idiomatic vocabulary for social interaction. Students are expected to use French exclusively and to apply grammar concepts learned in their previous study of the language. Suitable for students with intermediate knowledge of French grammar and vocabulary. Prerequisites: French 202 or 205 previously (or concurrently with permission of instructor)

Prerequisite: FRH 202 or FRH 205 (or concurrently with permission of the instructor)

FORENSIC SCIENCE

FRS 101(D) Introduction to Forensic Science 4 credits

A study of fundamental forensic science techniques and procedures. Lecture topics include types of physical, chemical, and biological evidence, as well as the legal system and forensic science, crime scenes and various forensic specialties. Laboratories afford students the opportunity to identify, examine, and assess forensic evidence using modern chemical and biological techniques.

FRS 110(D) Insects and Forensics 4 credits

This course is a basic introduction to insect biology with emphasis on applications of forensic entomology. Other topics include insect evolution, biodiversity and conservation of insects, behavior, physiology, life histories, and systematics. The emphasis of this course describes the use of insects as evidence in court and explains how they can assist in solving crimes.

FRS 201(D) Forensic DNA Analysis 4 credits

An introduction to biochemical and molecular techniques used in DNA typing and analysis with emphasis on forensic applications. Lecture topics include population genetics principles and statistics; biology of DNA; DNA genotyping; procedures for nuclear DNA, mitochondrial DNA and Y chromosome analysis; and quality control and regulations. Laboratories provide the opportunity to prepare human DNA for analysis using extraction, puri-

fication, and amplification techniques. Students will analyze prepared DNA using several methods, including the Avant gene sequencer.

Prerequisites: FRS 101 or BIO 243 and CHM 101 or 113 or 121

GEOGRAPHY

GEO 110(B) World Regional Geography 3 credits

Major geographic concepts and contemporary world regional geography. Examines the field of geography, basic globe and map concepts, the physical world (oceans and continents), and the political world (states and other political units). Includes an in-depth inspection of each of the world's developed and developing realms.

GEOLOGY - See Earth Science

GERMAN

GER 101 Elementary German 1 3 credits each

An introduction to spoken and written German. Basic structure, pronunciation, vocabulary, and usage, with emphasis on communication and oral proficiency.

GER 102 Elementary German 2 3 credits each

A continuation of Elementary German.

Prerequisite: GER 101

GER 105 Intensive Elementary German 1-2 6 credits

Covers the course content of GER 101 and GER 102 (Elementary German) in one semester.

GER 205(C) Intensive Intermediate German 6 credits

Covers the course content of GER 201 and GER 202 (Intermediate German) in one semester.

GEOGRAPHIC INFORMATION SYSTEMS TECHNOLOGY

GIS 125 Mapping with Geographic Information Systems 3 credits

This is an introductory course in Geographic Information Science (GIS). Geographic information systems are computer technologies for producing maps and discovering possible correlation between spatial data (e.g., natural resource data, census information, land use data, city planning records, epidemiological information, water quality figures, air quality figures, marketing statistics, etc.). Individuals from diverse disciplines are encouraged to enroll in this course which focuses on obtaining and creating digital data, performing elementary spatial analysis and producing graphical representations through the use of computer mapping software.

GERONTOLOGY

GRT 110(B) Introduction to the Study of Aging 3 credits

An introduction to the field of gerontology and a review of important concepts and principles in fields related to gerontology. Perspectives on social gerontology are included, as well as the inter-relationship between the biological, psychological, and social factors influencing the aging process.

GRT 120(B) Financial Issues of Aging 3 credits

Examines financial issues older adults confront, such as work, retirement, financial planning, health care and custodial care. Addresses current social welfare policies which affect the older adult, the processes and procedures used to access programs including Social Security, Medicare, tax benefits/penalties and others offered by our government and communities.

GENERAL STUDIES

GSY 002 How to Study Effectively 1 credit

Designed to help students succeed in college. Special instructions will be given by the Student Personnel Staff. The following topics are covered: developing proper study habits, scheduling time, reading efficiently, taking notes, listening efficiently, taking examinations. Students are graded on a Satisfactory-Unsatisfactory basis. (Credits earned in this course do not count toward the total credits required for graduation).

GSY 101 Career Development 1 credit

Examines some of the following: the need for planning, assessing values, decision-making skills, self-awareness, risk-taking, career fields, vocational reference materials, setting goals, strategy for action, the evaluation process, resume writing, interview preparation, and employment expectations. Students are graded on a Satisfactory-Unsatisfactory basis.

GSY 110 Career Planning 1 credit

Introduces students to the importance of career exploration and planning. Students will assess their interests, skills, abilities, values and personality preferences and learn how their preferences relate to choice of college major and careers. Students will research and explore labor market information and career options, set goals, learn decision-making techniques, and develop a career action plan, information about the college transfer process will be presented as well.

GSY 111 Job Search Strategies 1 credit

This course provides students with a clear understanding of the job search process. Students will learn how to identify their skills and accomplishments, write a professional resume and cover letter, research industries and job listings, submit an electronic resume, and develop and practice effective job interview techniques. Online career resources, videos, group discussion, guest speakers, and case studies will be offered in this interactive and very useful class.

GSY 112 Professional Etiquette 1 credit

A study of the interpersonal and communication skills fundamental for success in the workplace. Students will hone their professional style as they study topics including professional behavior, interpersonal interactions, and civility as they relate to the workplace.

HOSPITALITY AND CULINARY ARTS

HCA 101 Introduction to Hospitality Industry 3 credits

An introduction to the operation of hotels, motels, restaurants, resorts, and tourism. Emphasis on the development of the industry, current trends, and management responsibilities.

HCA 102 Lodging Operations 3 credits

Analysis and evaluation of hotel and motel systems and operations. Consideration of organizational structure, management responsibility, property management, and security systems.

Prerequisite: HCA 101 with a grade of C- or better.

HCA 130 Food Production Management 4 credits

An introductory course dealing with the management of food production in a food service setting. Topics include food preparation principles and techniques, equipment, safety, sanitation, nutrition and management. Principles and techniques are practiced through actual laboratory experiences.

Prerequisite: ENG 085 with a grade of C- or higher or appropriate test score on the English Placement Test.

HCA 232 Food and Beverage Operations 3 credits

The fundamental principles and techniques underlying the managerial process of the food service industry. Topics include menu planning, purchasing, issuing, storing, controls, and personnel and productivity management.

Prerequisites: HCA 130 or a grade of C- or better in both CUL 101 and CUL 115.

HCA 280 Hospitality Management Cooperative Education I 3 credits

An opportunity to apply classroom theory in an actual work setting in a supervised position. Approximately 150 hours of work plus a 50-minute weekly seminar that includes presentation and discussion of topics related to success on the job as well as career exploration.

Prerequisites: 24 credits, completion of HCA 101, and completion of either HCA 232 OR CUL 215.

HCA 281 Hospitality Management Cooperative Education II 3 credits

An opportunity to develop in-depth knowledge and demonstrate increased levels of expertise in a supervised position. Approximately 15-20 hours per week of work plus a 50-minute weekly seminar. Seminar includes presentation of reports and discussion of topics related to success on the job.

Prerequisite: HCA 280

HEALTH, FITNESS & NUTRITION

HFN 103 First Aid/Safety 1 credit

Provides the knowledge and skills called for in most situations in which emergency care is required and medical assistance is not excessively delayed. An introduction to CPR is included. Course will be taught by a Nationally Certified CPR/First Aid Instructor. Grading is on a Satisfactory-Unsatisfactory basis. Students can not receive credit for both HFN 104 and HFN 103.

HFN 104 Sports First Aid 1 credit

This is a first aid and CPR course geared towards the physical educator, coach, and/or fitness instructor. The course includes assessment and emergency care for sports related injuries, illness, spine, and musculoskeletal injuries. CPR and the Heimlich Maneuver are included. This program is used for certification by American Sport Education Program. Students may not receive credit for both HFN 104 and HFN 103.

HFN 105 Personal Nutrition 1 credit

Examines the fundamental of nutrition and how it applies to personal health. Student will study the six major nutrients: carbohydrates, fats, proteins, vitamins, minerals, and water as well as explore weight control, fiber,

food supplements, and nutrition fads. In order to promote lifelong nutrition fitness students will design a personalized meal plan, learn how to navigate the food stores, and learn eating-out strategies. A "thinking" vs. "taste bud" philosophy will oversee the course! A dietary computer application is used throughout the semester to track personal dietary, energy and fitness data.

HFN 106 Sports Supplements 1 credit

This course is designed to teach the student about positive and negative aspects of sports supplements for enhanced motor performance. Students will examine the history of sports supplementation in Olympic and other competitive events and discuss legal aspects of sports supplements. The role of the FDA and other agencies will be discussed as students examine various popular performance enhancing drugs and herbal supplements.

HFN 108 PACE (People with Arthritis Can Exercise) 1 credit

This course is designed to prepare the exercise leader to work with people with arthritis. Developed in collaboration with the Arthritis Foundation, this course examines the common types, signs, symptoms, and special considerations of arthritis/rheumatic diseases. Exercise programming and instruction for people with arthritis is discussed and practiced. Students will participate in six hours of fieldwork as part of this curriculum.

Prerequisites: HFN 134 or HFN 183, or HFN 180 and HFN 181 or Industry Certification in Group Exercise or Personal Training or permission of instructor or department chair. 5 class hours and 1.5 laboratory hours.

HFN 109 Yoga Fitness Instructor 3 credits

A comprehensive course that is designed to prepare the fitness enthusiast for the position of yoga fitness instructor and for successful completion of a national or international yoga fitness certification exam. The course includes a combination of exercise science principles and practical experience as needed to lead others safely through yoga fitness programs. Topics include exercise science, components of fitness, injury prevention and leadership skills. Practical skills such as use of music, cueing, movement transitions, choreography development and mirror image teaching are practiced.

HFN 110 Fundamentals of Coaching 3 credits

Covers the fundamental principles of coaching. Emphasis is on the development of a program, from organization through preparation for competition.

HFN 111 Topics in Sport 3 credits

A survey course that provides an introduction to sport and leisure activities. Students will learn and practice team and individual sports such as volleyball, soccer, basketball, cross country, track, wrestling, golf, baseball, tennis, and others. Students are expected to fully participate in each sport/activity.

HFN 112	Coaching Youth Sports	3 credits	HFN 131	Introduction to Wellness/Fitness	1 credit
	A lecture course with a service-learning component, this course provides students with the opportunity to expand and apply their knowledge of coaching youth sports. Students will go through the entire process of coaching from preparation/planning to implementation to evaluation with a local youth sport team. The Service Learning component will consist of a minimum of 1 hour and maximum of 2 hours weekly outside class time, depending on the needs of the community organization. Students are required to complete CORI/SORI forms prior to having contact with the children. <i>Prerequisite: HFN 110 or instructor permission</i>			Examines the importance of a wellness/fitness program to improve general well-being. Includes assessment of lifestyle and personal health.	
HFN 114	Personal Fitness	1 credit	HFN 133	Group Exercise: Aerobics, Step Aerobics and More	1 credit
	This course is designed to help sedentary people develop and follow a life-style exercise routine. Course topics include aerobic fitness, strength and endurance training, and flexibility routines. Class participants are expected to come to class dressed for movement in every class.			An intermediate level course in aerobic exercise. Emphasis is on the conditioning of the cardiovascular system through a variety of group exercises packaged together to maintain interest and enjoyment while gaining all of the health benefits.	
HFN 115	Healthy Living	3 credits	HFN 134	Leading Group Exercise	3 credits
	This course is designed to help members of the HCC and local communities learn how to develop and follow a plan for healthy living. This course includes topics such as physical fitness, nutrition, stress management and other current health-related issues. Emphasis is on application of material. Students are required to dress for physical and other types of activities.			A comprehensive course that is designed to prepare the fitness enthusiast for the position of aerobics/step aerobics instructor and for successful completion of an international certification exam. The course includes a combination of scientifically based theoretical information and practical experience as needed to lead others safely through group exercise. Topics include exercise science, components of fitness, injury prevention and leadership skills. Practical skills such as use of music, cueing, movement transitions, choreography development and mirror image teaching are practiced for traditional and step aerobics. Additional class formats such as kickboxing, mat training, yoga, slide training and others will be discussed.	
HFN 120	Motor Learning Principles and Practices	3 credits	HFN 135	Topics in Dance	1 credit
	An introductory course to the principles and practice of motor learning as would be applied to physical education, physical fitness and sports related activities. Students will examine the fundamental process of learning and teaching human movement patterns. Students will study and discuss the learner, the process of learning, and the process of teaching movement skills. Using personal research projects, students will examine and analyze external and internal factors that influence movement performance. Case studies will be used for class discussion and student evaluation. This course is designed to teach the student about the various tools that may be used to enhance resistance training. Students will learn how to use and practice techniques with elastic devices, hand weights, resistance balls, medicine balls and steps, body bars and other devices.			A beginning course in contemporary dance. Focus is on the technical knowledge and creative expression essential to participation in the latest dance steps.	
HFN 129	Tools for Resistance Training	1 credit	HFN 137	Aquatic Exercise Leader	3 credits
	This course is designed to teach the student about the various tools that may be used to enhance resistance training. Students will learn how to use and practice techniques with elastic devices, hand weights, resistance balls, medicine balls and steps, body bars and other devices.			A comprehensive course that is designed to prepare the fitness enthusiast for the position of aquatic exercise leader and for successful completion of an international certification exam. The course includes a combination of scientifically based theoretical information and practical experience as needed to lead others safely through aqua programs. Topics include exercise science, components of fitness, injury prevention and leadership skills. Practical skills such as use of music, cueing, movement transitions, choreography development and mirror image teaching are practiced and applied to the aquatic environment.	
			HFN 145	Beginning Yoga	1 credit
				An introduction to the fundamentals of Hatha Yoga, the yoga of physical well-being. The class will include the practice of meditation, warm-ups, stretching exercises (Asanas), rhythmic breathing (Pranayama), and deep relaxation. A brief history and philosophy of the ancient practice of yoga also will be presented.	

HFN	148	Yoga II	1 credit
		An intermediate level yoga course that includes both theory and practice of yoga as a means to health and wellness. Students will advance in the practice of Hatha Yoga Asanas (as learned in the introductory course) and examine other Yoga disciplines.	
HFN	150	Managing Stress	1 credit
		Designed for those interested in or currently coaching baseball and for students working towards the HCC Coaching Certificate. Students will acquire the knowledge and skills necessary to develop a complete baseball program. Introduces the student to the theoretical and physiological foundations of stress, and how these provide a framework for the development and application of a wide range of stress management techniques. Students will learn how to use particular interventions to deal with specific stress-related problems.	
HFN	160	Martial Arts	1 credit
		(Style/School and Level to be announced)	
		Offers its practitioners an opportunity to improve physical fitness, coordination, focus, energy and awareness, self-discipline and personal growth. Includes topics such as self defense, kicks, hand techniques, blocks and choreographed movements. Students may take the course more than once for credit to study different styles/schools and levels	
HFN	164	Building Self Esteem for Women	1 credit
		A hands-on, experiential course designed to build self-esteem for women. Topics will include self-expression, assertiveness and communication skills, confidence-building, self-acceptance, and stress reduction. Activities will include art and writing projects, adventure learning, group discussions, and role-playing.	
HFN	165	Women's Self-Defense	1 credit
		Introduces the student to the mental and physical skills needed to deal effectively with any potentially dangerous situations as well as with day to day conflicts.	
HFN	166	Self-Defense	1 credit
		A course in personal safety that introduces the basic components of conflict management and self defense strategies and skills. This co-ed course will include both theory and practice sessions.	

HFN	170	Exercise in Health and Disease	3 credits
		A survey course that examines exercise programming considerations for healthy populations and those with special medical considerations. Review of the physiological and biomechanical concerns of various populations will be discussed and applied to the exercise environment. Exercise program design for exercisers with known cardiopulmonary, metabolic and auto-immune diseases will be discussed. Gender differences will be evaluated and exercise guidelines for youth, seniors and pregnant exercisers will be examined. Fitness assessments that are appropriate for various populations will be highlighted.	
HFN	171	Leadership in Recreation, Fitness and Sport	3 credits
		An introduction to leadership in recreation, fitness and sporting environments. Course includes evaluation of role and competencies of the leader and effective program management techniques. Topics such as communication skills, motivation, implementing change, teaching and learning, and time management techniques will be discussed. Through observation, practice sessions and use of case studies, students will begin to define and develop effective leadership techniques.	
HFN	172	Introduction to Exercise Science	2 credits
		An introduction to the structure and operations of fitness facilities and exploration of career opportunities in the fitness field. Students will examine various aspects of the fitness industry including the history of fitness as a business entity, facility types, career opportunities, fitness technology and consumer influences. Students will use site visitations and participation as learning tools.	
HFN	173	Introduction to Teaching Physical Education	3credit
		This course is designed to introduce the student to curriculum and teaching methods in physical education. Students will examine physical and developmental growth of children, psychosocial factors, development and implementation of curriculum, and evaluation of student outcomes. Students will examine Massachusetts State Teacher preparation and learning outcomes reporting procedures. <i>Prerequisites: ENG 101 eligible</i>	
HFN	176	Physiology of Exercise	4 credits
		An introduction to the study of human physiology as it relates to acute and chronic exercise across the lifespan. In this course, the student will study the systemic aspects of nerve, musculoskeletal, circulatory, respiratory, and thermal, and endocrine physiology, with an emphasis on practical application to exercise. Students will examine the effects of nutrition and supplementation on exercise performance. <i>Prerequisite: BIO 217</i>	

HFN	177	Biomechanics of Human Movement	3 credits
		An introduction to the structure and function of the body as related to human movement and physical activity. Course includes discussion of the anatomical considerations for movement, functional anatomy, and mechanics and laws of motion as related to the human body.	
		<i>Prerequisite:</i> BIO 100 or BIO 103 or BIO 107 or BIO 111 or BIO 117	
HFN	178	Prevention, Assessment and Care of Sport/Fitness Injuries	3 credits
		An introduction to the study of injuries and treatment in sport and fitness programs. This course provides a review of functional anatomy as related to mechanisms of injury. Strategies for injury prevention in both sport and fitness environments will be discussed. Injury assessment techniques will provide the learner with a means to accurately recognize the nature and severity of an athletic injury and develop appropriate injury management strategies.	
HFN	179	Current Issues in Sport and Fitness	3 credits
		A survey course that examines current issues that influence the fields of sport and fitness. Topics include nutritional supplementation, training guidelines, industry standards and guidelines, certification requirements and other issues relevant to growth of the sport and fitness fields. Emphasis will be placed on scientific evaluation of topics discussed. Students will be asked to research a topic and present scientifically based findings to the class.	
HFN	180	Physical Conditioning I	1 credit
		An introductory course on the safe and effective resistance training and cardiovascular conditioning for fun, health, and self-improvement.	
HFN	181	Physical Conditioning II	1 credit
		An intermediate level course designed for students interested in resistance training and cardiovascular conditioning as a means of enhancing athletic performance. Focus is on sport-specific programs that establish a sound fitness base while maximizing athletic potential.	
HFN	182	Physical Conditioning III	1 credit
		An advanced level course for students interested in high intensity strength training and cardiovascular conditioning. The emphasis is on current research and its application to developing optimal muscle strength, volume and/or distribution.	
HFN	183	Personal Trainer and Fitness Counseling	3 credit
		A survey course that examines the roles and responsibilities of a personal trainer/fitness counselor. This course is designed to prepare the student for	

		the role of the fitness trainer and for successful completion of an International Personal Trainer Certification. This course includes both theoretical information and practical application of knowledge and skills used by the trainer. Topics include exercise science, components of fitness, fitness assessments, leadership skills and business aspects of personal training. Case studies and projects will be used to apply concepts to the practical environment.	
HFN	184	Firefighter Fitness Trainer	3 credit
		This course is designed to prepare the firefighter for the role of fitness trainer and for successful completion of a national examination. This survey course examines the roles and responsibilities of the fitness leader and is highly specific to the special needs and demands of firefighting. The course includes both theoretical information and practical application of knowledge and skills.	
HFN	185	Principles and Practice of Strength Training	3 credits
		A detailed study of strength/endurance training principles and practices. Topics include anatomy and physiology, kinesiology, nutrition, biomechanics, and measurement of strength and endurance. Students will learn to use the science of exercise in a practical format and design resistance programs to meet health related and motor performance goals. Students will examine and practice training techniques used in recreational fitness and competitive lifting.	
		<i>Prerequisite:</i> HFN 183 or HFN 134 or BIO 217	
HFN	188	Health and Wellness Counseling	3 credits
		This course is designed to teach the basic skills of health and wellness counseling to non-professionally trained counselors. The course includes theory of counseling and behavior change as well as practical skills such as attending, observational, responding and influencing skills. Students will learn and discuss ethical and legal issues related to health and wellness counseling.	
HFN	189	Fitness Assessments	3 credits
		This course is designed for exercise leaders, practitioners and teachers who are responsible for assessing the risk of exercise participation and development of exercise programs and for students who will pursue a career in exercise physiology or athletic training. Through study, practice and field observations, students will learn how to administer physical measurements of cardiovascular fitness, muscular strength and endurance, body composition, flexibility, postural deviations and biomechanical risks. Students will learn and practice development of exercise programs based on the assessment results.	
HFN	190	Professional Fitness Seminar/Internship	3 credits
		An experiential course that includes classroom discussion and internship opportunities to enhance the learning experiences of the fitness professional.	

This course is open to all students pursuing a certificate and/or degree in fitness/physical education, e.g., personal trainers, group exercise leaders, exercise specialists, and fitness managers.

Prerequisite: HFN 134, HFN 172, or HFN 183, or Permission of Instructor

HEALTH INFORMATION MANAGEMENT

HIM 103 Introduction to Health Information Management 2 credits

An orientation course in record keeping theory and practice including material on the organization and functions of the medical record department and the duties and responsibilities of medical record personnel.

HIM 104 Health Insurance Reimbursement and Computerized Billing 4 credits

An introduction course to the health insurance field and the influence of today's managed care environment. Requirements for Medicare, Medicaid and commercial insurance claims will be discussed. This course provides the opportunity to do medical billing and practice management, utilizing coding software. Includes the principles and application of Evaluation & Management (E&M) coding.

HIM 105 Anatomy and Physiology for Medical Coding 2 credits

Presents an introduction to the human anatomy and physiology with an emphasis on how pathology affects the human body. Physiology will be emphasized in respect to how it causes disease and how the disease is diagnosed and treated.

Prerequisite: Eligibility for ENG 101

HIM 106 Electronic Health Records 2 credits

This course is an introduction to the electronic health record system for students in the Medical Coding Certificate. Throughout this course, students will gain an understanding of both the terminology of EHR systems and the practical use of such systems in a health care provider office setting.

HIM 107 Human Anatomy, Physiology and Disease Processes for Medical Billing 2 credits

This course presents an introduction to human anatomy, physiology and fundamentals of disease processes for the medical billing student. Human anatomy is presented by body systems, including the cellular components of the body. The discussion of physiology and disease processes include mechanisms of disease process, causes of disease, classifications of diseases and the treatment of representative diseases.

Prerequisite: HTH 114

HIM 204 Introduction to the Study of Disease 3 credits

Presents the fundamentals of pathology, including mechanisms of the disease process, causes of disease, classification of diseases, pathology and the treatment of representative diseases, and survey of diseases by systems.

Prerequisites: HIM 105 or BIO 111 or BIO 217-218 and HTH 114

HIM 223 Coding Procedures 3 credits

This course is designated to provide the student with an understanding of CPT coding basics and their accurate utilization. Emphasis is placed on coding and classifying procedures using the CPT 4 system. Coding diagnoses using both ICD-9-CM and ICD-10-CM coding system are also used.

Pre-requisite: HIM 114

Co-requisites: HIM 114, HIM 224

HIM 224 Coding Principles and Applications 4 credits

This course provides a summary of clinical coding and classification systems in order to assign appropriate diagnostic and/or procedure codes. Includes the principles and applications of codes. Case mix analysis, severity of illness systems and data quality are reviewed. Validation of coded data and reimbursement and payment systems are discussed.

Prerequisite: HIM 103, HIM 105, HTH 114

Co-requisites: HIM 223

HIM 225 Advanced Coding 3 credits

Provides an in-depth study of coding, classification and nomenclature systems. This course includes the application and evaluation of advanced coding principles and analysis of comprehensive case studies.

Prerequisite: HIM 224

HIM 283 Medical Coding Cooperative Education 2 credits

Cooperative Education enables students to apply classroom theory and gain experience in a supervised medical setting for a total of 100 hours. Practical applications of coding including opportunities to code different types of cases, observing and handling medical records office procedures and processes involving medical records and claims coding. Students also attend a scheduled two-hour seminar five times throughout the semester, which includes discussion of, and assignments related to success on the job and career exploration.

Prerequisite: HIM 225

HIM 286 Medical Billing Cooperative Education 2 credits

A required three-credit course that offers students an opportunity to learn medical billing in a health care setting. Students will intern for a total of 160 hours and attend scheduled seminars to prepare learning goals, learn skills necessary for successful job performance and career advancement, develop resumes, cover letters and interviewing skills, evaluate work performance, and identify learning outcomes. Students must have a CORI check prior to enrollment.

Prerequisites: HIM 104, HIM 107, HIM 223

HISTORY

HIS 101(C) History of Western Civilization I 3 credits

A survey of the history of Europe from the ancient Greek and Roman world to the 17th century, stressing political, social, cultural, intellectual, and economic developments, as appropriate.

HIS 102(C) History of Western Civilization II 3 credits

A survey of the history of Europe from the beginning of the 18th century to the present, stressing political, social, cultural, intellectual and economic developments, as appropriate.

HIS 103(C) History of World Civilization I 3 credits

A survey of the history of the civilizations of Asia, Africa, Europe, and the Americas from their beginnings to the sixteenth century. Emphasis is placed on the economic, social, political, religious, and cultural developments that have shaped the modern world.

HIS 104(C) History of World Civilizations II 3 credits

A survey of the history of the civilizations of the world from the sixteenth century to the present. Emphasis is placed on the economic, social, political, religious, and cultural developments that continue to shape the modern world. Emphasis is also placed on the growing interdependence and mutual influence of the formerly separate cultures of Asia, Africa, Europe, and the Americas.

HIS 105(C) History of World War II 3 credits

History of World War II This course examines the origins, nature, and impact of the Second World War. Beginning with a survey of the Great War and its aftermath, it traces the onset of World War II through the eyes of its many participants. As an international history of the war, this course covers all military theaters, devoting roughly equal time to operations in Europe and the Pacific. It also examines the war's impact on civilian populations (including the Holocaust) and the manner in which the conflict transformed the economic, social, and political arenas for the major combatants.

HIS 106(C) History of the Pioneer Valley 3 credits

This course, part of HCC's First Year Experience (FYE) program, empowers students to explore the History of the Pioneer Valley through a hands-on approach. Emphasizing primary source analysis, students will investigate a variety of vivid sources from laws and letters, newspapers and literature to paintings and photographs, music and film that document four significant moments in the History of the Valley across the past 300 years. As detectives of the past, students will explore these questions: Why did the raid on Deerfield take place in 1704, and what did it mean? In what ways was (or was not) Shay's Rebellion the last battle in the American Revolution? How did the Valley move from being a slave-holding region to one of the leading centers that advocated abolition in the 19th century? What is the Pioneer Valley in our time, how is its History being made right now? In pursuing these questions, students will wrestle with many of the larger questions that shape History such as the difficulties inherent in Native American and European encounters; the struggle to establish and maintain the United States of America in the 18th century; the long fight to realize the full promise of America for all its citizens; and the economic, social, and political challenges and transformations at the turn of the 21st century. The course is ideal for all students interested in the Pioneer Valley's rich and complex past who are eager to debate and unpack the ways in which History's threshold concepts work and are analyzed: namely, the role of individual agency, the power of superstructures, the relationship between cause and effect, and the quest to find meaning in the past.

Prerequisite: ENG 101 eligibility

HIS 107(C) History of Puerto Rico and the Caribbean 3 credits

A survey of the social, cultural, economic and political developments of the Caribbean with specific emphasis on Puerto Rico and Cuba. The different peoples and societies of the pre-Columbian era, the colonial period and the modern era until the present will be examined. Particular attention will be given to the relationship between the United States and the peoples of the Caribbean in the 20th century.

HIS 108(C) Deaf History 3 credits

This course presents the history of deaf people starting with the ancient world and progressing to present day America. Topics include the history of oppression and accomplishments of deaf people, various historical views of deaf people, the treatment of deaf people, the influence of European philosophy on the American deaf community, the rise of schools for the deaf and modern Deaf empowerment movement.

Prerequisite: ENG 101

HIS 109(C) African-American History 3 credits

Traces the history of African-Americans from their places of origin to contemporary times. Examines such areas as slavery and the plantation system; the conditions and contributions of African-Americans in the founding and building of the United States; the abolition movement, the Civil War, and Reconstruction; the richness of African-American culture and its contributions to the development of uniquely American social and cultural institutions; freedom and civil rights as an ongoing issue in American society; and current issues of equality. Present concerns and projected future issues of African-Americans will be explored as well.

HIS 111(C) History of the United States I 3 credits

A survey of the political, economic, social, and cultural developments of the United States from pre-Colonial times to the end of the Civil War, including early settlement, the Revolution, the implementation of the Constitution, the War of 1812, the Jacksonian era, and the causes and course of the Civil War.

HIS 112(C) History of the United States II 3 credits

A survey of the political, economic, social, and cultural developments of the United States from the end of the Civil War until the present, including such topics as Reconstruction, industrialization, immigration, the Great Depression, the New Deal, the world wars, and the Cold War.

HIS 121(C) History of Animal Advocacy in the United States, 1865-Present 3 credits

Less than 150 years ago in the United States, abusing or beating an animal to death was, in most cases, legal and acceptable. Today, by contrast, both state and federal laws mandate the humane treatment of companion animals, circus animals, food animals, laboratory animals, and wildlife, and a vibrant animal advocacy movement boasts thousands of organizations and millions of members. How did this dramatic change occur? Who were the early activists and how did they fight cruelty and change the laws and attitudes of this nation? This course explores and debates the roots, identities, struggles, and successes of the American Animal advocacy movement since 1865. As we examine its growth and evolution, we will locate the movement within the context of larger social forces such as industrialization, science and technology, consumerism, and environmentalism. We will reveal the connections between past and present thus demonstrating the relevancy of animal advocacy to our society and our own lives.

HIS 130(C) U.S. Women's History 3 credits

This is a survey of United States Women's History that examines the unique political, social, economic, and cultural issues and experiences of women from the colonial period to the present. While tracing broader trends and themes, we will also consider the lives of specific individuals in order to

shed greater light on the diversity of women's experiences. Throughout, we will explore the ways in which notions of gender differences have changed over time and how women both created and responded to shifting and contested cultural, political, and social roles. Some of the major themes may include the differences among women in class, race, ethnicity, and sexuality, the construction of gender, women's roles in family and community, various movements for women's rights, women and reform, and women in the work force.

Prerequisite: ENG 101 eligible

HIS 150(C) Topics in History 3 credits

Offers students an opportunity to use a combination of primary and secondary sources to study the history of a particular period, region, event, development, or idea. The specific topic may change each time the course is offered.

HIS 220(C) History of the World Since 1900 3 credits

A study of the major economic, political, social, religious, intellectual, and artistic developments which have occurred throughout the world since the beginning of the twentieth century. Addresses such issues as the World Wars, the Cold War, major revolutions and ideologies, colonialism and the struggle against it, industrialization and the growth of a world economy, modernism and the fundamentalist reaction against it, human population growth, and the ways in which the everyday lives of most people have been altered by instantaneous communication, literacy, rapid transportation, urbanization, mass production, advertising, and computers.

HIS 225(C) American Environmental History 3 credits

Environmental history examines how humans and nature have interacted through time and with what results. The natural environment (water, land, climate, geological changes, disease, plant and animal ecology, etc.) and human factors (population, capitalism, technology, social relations, cultural attitudes, etc.) from an interrelated system. However, the environmental history of a period and place is a matter of interpretation, and this course actively explores the many facets of this new field of study. As an introduction to interpreting America's environmental past, students will explore such themes as Native American ecology, hunting, the impact of agriculture, mining, industrialization, as well as the emergence of ecology and the modern environmental movement.

Prerequisite: Eligibility for ENG 101

HIS 250(C) Topics in History 3 credits

Students use both primary and secondary sources to study the history of a particular period, region, movement or event. The specific topic to be studied may change each time the course is offered. Students will be expected to complete a research project.

Prerequisites: One previous history course and English 101 (Additional prerequisites or specific history course or permission of the instructor may be specified when the topic is announced.

HIS 260(C) Modern East Asian History 3 credits

Examines the society, thought, institutions, and principal personalities of modern East Asia (19th and 20th Centuries). Analyzes the transformation of Asian society from its traditional patterns to its role in the modern world. Major emphasis will be placed on China and Japan, but a treatment of Korea and Southeast Asia will also be included.

HONORS

HON 201 Honors Project 1 credit

An Honors Project consists of independent work undertaken in addition to the regular requirement of a college course. Such work may consist of an extra paper, a paper of greater length or complexity, a research project, or creative work. Constructing an Honors Project involves submitting a proposal for the approval of the Honors Committee, working closely with a supervising faculty member, and preparing a brief reflective essay to accompany the completed project. Students will receive 1 credit when they complete all steps of the project.

Prerequisites: GPA of 3.5 and/or permission of instructor; approval of Honors Committee

HON 202 Honors Seminar 1 credit

This one-credit, seven-week course focuses upon the conventions of efficient and ethical research, and upon effective means of research presentation, written and oral. Seminar students will read and discuss a single text, use research to deepen their understanding of the work and share their discoveries with the class. The class text will change each semester, and may be fiction, non-fiction, or memoir. Students who want to extend the careful reading and research writing begun in other HCC courses will find the Honors Seminar a useful place to hone their reading and writing skills. This course is offered in conjunction with Umass Amherst's Commonwealth Honors College (CHC), and transfers to Umass as "Honors 191D."

Prerequisite: Completion of ENG 101 with a grade of B or better, or permission of the instructor.

HON 206 Honors Colloquium 6 credits (B,C)

The Honors Colloquium, or seminar, is designed to bring together students from many academic disciplines to confront a theme or issue of current concern from a variety of perspectives. Honors Colloquia are either 4-credit, 6-credit, or 7-credit, multidisciplinary courses (e.g. Infinity, Visions of Nature, Monsters, Mind, Reality, The Millennium) that are competitively enrolled and limited to fifteen students who are selected each semester by the Honors Committee and the Colloquium leader(s). Colloquia generally offer field trips and a series of expert guest speakers. Each student who is selected to become a Colloquium Scholar receives a scholarship that provides all of the required texts for the Colloquium. A Colloquium may sometimes receive a B, C, or D transfer compact code depending upon the subject of the Colloquium and the student's work, with permission of the instructor(s).

Prerequisites: 3.5 GPA after 30 hours of study and/or permission of instructor(s). English 102 preferred. Eligible students will be invited by mail to apply.

HORTICULTURE

HRT 112(D) Sustainable Agriculture I 0-4 credits

The choices we make in our every day eating habits, whether we choose to eat fast food, or healthy meals, has an impact on the sustainability of our environment. Choosing to eat locally grown, organic produce can help to preserve our soil, water and biodiversity resources while reducing our dependence on fossil fuels. This course will examine the history of agriculture, how contemporary food culture is defined, and current agricultural practices, including the use of fertilizers and pesticides. Scientific analysis of soil and water will be included. Students will explore a variety of farming practices while working on community-based field labs at a local farm and at the HCC organic garden.

Prerequisite: SUS 101 or ENV 120

HRT 212 (D) Sustainable Agriculture II 4 credits

This course will cover the fundamentals of system-level ecological interactions, such as population ecology and stability, as applied to sustainable agricultural systems. In addition, we will explore ways to make the transition to a more sustainable lifestyle through participation in a local food system. Topics covered will include GMO's, species interactions in agricultural systems and landscape diversity. The laboratory will include composting, worm castings, green manures and cover crops.

Prerequisite: SUS 101 or ENV 120 (HRT 112 not required)

HUMAN SERVICES

HSV 113 Introduction to Human Services 3 credits

An orientation to human services. Particular emphasis on motivation for working in human services, personal attitudes and values, consumer empowerment, inclusion, and multicultural issues. Also includes a history of human services, an overview of the American human services systems, and an introduction to local human service agencies. There is a required Community Service Learning component.

Prerequisite: Eligibility for ENG 101

HSV 120 (B) Introduction to Addiction Studies 3 credits

An introduction to support systems that assist people with recovery from substance abuse and dependence. Theories of addiction will be highlighted in reference to issues in treatment, relapse, and prevention. Emphasis will be placed on understanding modalities of treatment and care for diverse populations affected by substance abuse issues. Relevant state and federal legislation and the role of culture will also be discussed.

Prerequisite: Eligibility for ENG 101

HSV 124 (B) The Helping Relationship: Delivering Human Services 3 credits

This course helps the student develop the knowledge, skills and personal characteristics that are critical for an effective helping relationship. Students will explore helper attitudes and values, increase awareness of themselves and others, and develop active listening, empowerment, case management, and crisis intervention skills. Course material is built upon research about human behavior, life stage theory, intervention strategies and strength-based practice.

Prerequisites: HSV 113 and PSY 110

HSV 125 Introduction to the Practicum 3 credits

This course prepares students for Human Service Practicum I/II. Students will identify the developmental stages involved in the practicum experience as they explore their own values, goals and expectations. Students will have the opportunity to observe a variety of service delivery systems through a combination of supervised field trips, informational interviews, and service learning. In addition, the course will address the Community Support Skills Standards in more detail, and assist students in the development of their Human Service Portfolios. Learning objectives and specific activities will be individualized, based on the needs of the student. There is a REQUIRED 30 hour service learning component.

Prerequisites: HSV 113; HSV 124 previously or concurrently; permission of department chair.

HSV 150 Topics in Human Services 3 credits

Surveys an area or topic in the human service professional literature to explore current and/or historical topics in the field of human services. The focus of the course will change each semester.

Prerequisite: This will be announced each semester based on the topic chosen.

HSV 205 (B) Domestic Violence 3 credits

An examination of domestic violence from human services, historical, psychological, cross-cultural, legal, and sociological perspectives. The extent, types, and causes of domestic violence will be analyzed. Prevention and intervention strategies necessary to those working with women, men, and children who have been affected by domestic violence will also be covered.

Prerequisite: Eligibility for ENG 101

HSV/SOC 208(B) Substance Abuse 3 credits

This course introduces concepts relevant to the diagnosis and treatment of substance abuse, including the disease concept; the effect of alcohol and other drugs on the body; medical complications; the effect of substance abuse problems on the family and others; and special issues related to populations such as adolescents, individuals at risk for suicide, women, the elderly, and individuals with a dual diagnosis. Same as SOC 208.

Prerequisite: PSY 110 or SOC 110

HSV 212(B) Group Dynamics 3 credits

Emphasizes development of group membership skills necessary for professional practice. Through group exercises students experience concepts being studied and are given the opportunity to develop basic skills in observing and understanding human behavior, including their own, in a group context. Basic concepts in group dynamics such as cohesion, interactional patterns, roles and responsibilities within a group, norms, status, group culture, and content vs. process will be discussed. In addition, the various stages of group development and the tasks involved in each will be introduced. An understanding of the leader's role in creating a facilitating environment during the different stages of group development will also be discussed.

Prerequisite: PSY 110

HSV 213 Professional and Ethical Standards in the Helping Professions 3 credits

This course facilitates students' understanding of ethical dilemmas and problem-solving frameworks related to the professional conduct in the helping professions. In addition to presenting the National Organization for Human Services (NOHS) Ethical Code of Conduct, and Code of Ethics from other professional organizations as a guide, students will apply professional standards in Human Services.

Prerequisite: HSV 113

HSV 214 Treatment Methodologies in Addiction 3 credits

This course provides students with an opportunity to learn theoretical frameworks and techniques for assisting individuals with addiction issues. Students will gain an awareness of societal, social and intercultural contexts of the historical approaches to addiction counseling. Students will develop knowledge of the range and nature of treatment modalities currently used in substance abuse counseling. Through the use of role-play, case studies and videos, students will develop a personal style of interaction to support individuals with addiction issues.

Prerequisites: HSV 120 and HSV 124

HSV 225 Human Services Administration 3 credits

Provides an understanding of the relationship between the behaviors of workers and their human service agencies, and how such agencies might function more efficiently. Particular attention is paid to hiring, training, supervision, work conditions, and productivity. In addition to group and managerial settings and roles, there is some focus on individual clerical responsibilities, proper documentation of services, and general communication skills.

Prerequisite: HSV 113 or permission of instructor

HSV 226(B) Supervisory Relationships in the Helping Professions 3 credits

An introductory course for supervisors in the helping professions, designed to develop the knowledge, skills, and attitudes needed for individuals in supervisory roles. Common threads throughout the course include ethics, cultural competency, belief systems, developing relationships, supervisory/leadership style, developing and working with teams.

Prerequisites: HSV 113 and ENG 101 eligible

HSV 250 Topics in Human Services 3 credits

Surveys an area or topic in the human services professional literature and uses primary source materials to explore current and/or historical topics in human services. The focus of the course will change each semester. Students will be expected to complete a research project.

Prerequisites: HSV 113, ENG 101, and others appropriate to the topic, which will be announced each semester.

HSV 288 Practicum in Human Services I 4 credits

Students contract to complete a minimum of 125 hours in each of practicum courses (total of 250 hours). The student does work that familiarizes him or her with concrete and practical examples of principles studied in class through readings or research. Student interns keep logs of their activities, meet regularly with their faculty sponsors, and write papers. Students continue the development of their Human Services portfolios during this semester through the Internship Course.

Prerequisites: HSV 113, HSV 125, and PSY 110 with a grade of C or better; HSV 124 previously or concurrently, with a grade of C or better; PSY 216

HSV 289 Practicum in Human Services 2 4 credits

Students contract to complete a minimum of 125 hours in each of practicum courses (total of 250 hours). The student does work that familiarizes him or her with concrete and practical examples of principles studied in class through readings or research. Student interns keep logs of their activities, meet regularly with their faculty sponsors, and write papers. Students continue the development of their Human Services portfolios during this semester through the Internship Course.

Prerequisites: HSV 288 with a grade of C or better and permission of department chair.

HEALTH

HTH 101 Introduction to Health Careers 3 credits

This course is for students who are exploring health careers and majors. Students will have the opportunity to evaluate and reflect on their own skills, interests and values to determine how they might shape their educational and career paths. The course will help clarify students understanding of specific careers in the field of health. The objective of this course is to help students decide if a career in the health field is a good fit for them and learn the educational requirements of specific health career degrees.

HTH 111 Shadowing Experience in Healthcare 1 credit

This course will allow students the option to explore careers by shadowing up to four professionals in the workplace for a total of 17 hours. Shadowing will consist of students conducting information interviews; observing daily work activities; touring departments; meetings with staff to discuss the industry, research careers in the HCC Career Center and attend a Shadowing Orientation. In addition, student will attend a lecture biweekly for a total of eight sessions.

Prerequisites: HTH 101 with C- or better, current Foundations of Health major, and written permission to participate;

Total semester hours: 8 class hours and 17 practicum/internship hours.

Course Fees: A CORI/SORI background check fee will be required by most sites; other fees may apply. Students are responsible for covering all course fees.

HTH 114 Medical Terminology 3 credits

An introduction to the terminology of medicine and health care, based on the study of medical work roots, prefixes, and suffixes. Terminology is presented according to physiologic systems. In addition to basic medical terminology, the course introduces medical abbreviations and some common pharmacological terms.

HTH 130 Introduction to Drug Therapy - Health Careers 2 credits

Introduces the major drug classes, their indications, mechanisms of action, and potential for drug-drug or drug-food interactions. Also, introduces fundamental terminology that is essential to understanding the basics of drug therapy. Other basic drug therapy concerns, including age, weight, organ function and body homeostasis will be included. Prescription interpretation, implementing Latin abbreviations used in prescription writing and filling, as well as illustrating the role and contribution of the pharmacy profession within the field of medicine. A basic mathematical aptitude is expected in the application of some topics.

Note: Students cannot receive credit for both HTH 130 and MEA 150

HTH 131 Introduction to Patient Care Skills 3 credits

This course will employ a case based learning methodology through life sized simulation and explore a variety of job duties as related to health care occupations. Students will learn vital signs, sterile techniques, handling of body fluids, body mechanics, Cardio Pulmonary Resuscitation (CPR), first aid, proper chart documentation, research techniques, professionalism, ethics, cultural diversity, and communication skills.

HTH 150 Introduction to Drug Therapy 2 credits

Introduces the major drug classes, their indications, mechanisms of action, and potential for drug-drug or drug-food interactions. Also, introduces fundamental terminology that is essential to understanding the basics of drug therapy. Other basic drug therapy concerns, including age, weight, organ function and body homeostasis will be included. Prescription interpretation, implementing Latin abbreviations used in prescription writing and filling, as well as illustrating the role and contribution of the pharmacy profession within the field of medicine. A basic mathematical aptitude is expected in the application of some topics.

HTH 210 Field Experience 6 credits

Full-time supervised cooperative work experience in the Health professions. Includes exposure and experiences in all phases of the patient care within a health licensed facility.

Pre-/Co-requisite: GRT 110; Additional Course Fees: \$93.00 CNA Licensure Exam, \$61 Drug Testing and \$15 Malpractice Insurance (All fees subject to change.)

HTH 280 Cooperative Education in the Health Sciences I 3 credits

An elective cooperative education field experience in the health sciences that provides the student with an opportunity to apply classroom theory in an actual work setting in a supervised position. Includes a weekly, 50-minute seminar to discuss students' field work and experiences and 15 to 20 hours

per week of cooperative experience. Nursing students have a special schedule of seminars and work experience designed for the summer session.

Prerequisites:

Nursing: NUR 101 and permission of coordinator.

Early Childhood: EDU 101, EDU 104, EDU 111, EDU 112 and permission of coordinator.

Environmental Science: CHM 102, CHM 114, or CHM 124; ENV 140; and permission of coordinator.

Medical Transcription: HIM 103 and HTH 114 and permission of coordinator.

Geographic Information Systems Technology: Completion of at least two GIS courses.

HTH 281 Cooperative Education in the Health Sciences II 3 credits

An elective cooperative education field experience in the health sciences that provides the student with an opportunity to apply classroom theory in an actual work setting in a supervised position. Includes a weekly, 50-minute seminar to discuss students' field work and experiences and 15 to 20 hours per week of cooperative experience. Nursing students have a special schedule of seminars and work experience designed for the summer session.

Prerequisite: HTH 280

HUMANITIES

HUM 200 Special Topics in Humanities 1-3 credits

Students prepare a unique project and/or analysis of literature, performance techniques, and/or art. The student must enroll before mid-semester

Prerequisite: Permission of the instructor

HUM 276 Arts and Humanities Internship 1 credit

Internships provide students with learning opportunities not available on campus, enabling them to earn credit for unpaid, supervised practical experience, applying principles learned in the classroom or observing a professional at work. On-campus internships are supervised by a faculty member; off-campus internships are supervised collaboratively by a faculty member and an on-site professional. Appropriate supporting assignments (e.g., reading, research, journal keeping) are determined by the supervisors and the student. The Division internship committee and the supervisor determine in advance whether the work will be a 1-, 2-, or 3-credit internship.

Prerequisites: Sophomore status, at least two previous courses in the relevant discipline, and consent of the faculty supervisor and the Arts and Humanities Internship Committee.

HUM 277 Arts and Humanities Internship 2 credits

Internships provide students with learning opportunities not available on campus, enabling them to earn credit for unpaid, supervised practical experience, applying principles learned in the classroom or observing a professional at work. On-campus internships are supervised by a faculty member; off-campus internships are supervised collaboratively by a faculty member and an on-site professional. Appropriate supporting assignments (e.g., reading, research, journal keeping) are determined by the supervisors and the student. The Division internship committee and the supervisor determine in advance whether the work will be a 1-, 2-, or 3-credit internship.

Prerequisites: Sophomore status, at least two previous courses in the relevant discipline, and consent of the faculty supervisor and the Arts and Humanities Internship Committee.

HUM 278 Arts and Humanities Internship 3 credits

Internships provide students with learning opportunities not available on campus, enabling them to earn credit for unpaid, supervised practical experience, applying principles learned in the classroom or observing a professional at work. On-campus internships are supervised by a faculty member; off-campus internships are supervised collaboratively by a faculty member and an on-site professional. Appropriate supporting assignments (e.g., reading, research, journal keeping) are determined by the supervisors and the student. The Division internship committee and the supervisor determine in advance whether the work will be a 1-, 2-, or 3-credit internship.

Prerequisites: Sophomore status, at least two previous courses in the relevant discipline, and consent of the faculty supervisor and the Arts and Humanities Internship Committee.

HUM 280 Humanities Cooperative Education I 3 credits

An elective cooperative field experience that provides students with the opportunity to exercise and expand their understanding of the arts and humanities by working with area theaters, galleries, printing companies, television and radio stations, community centers, or cultural resource centers. This experience encompasses the administrative as well as the creative aspects of arts- and humanities-related organizations within the community. It also offers exposure to professionals and service-oriented cultural groups within the student's chosen discipline. Fifteen to twenty hours per week of cooperative work experience. Weekly 50-minute seminars to discuss students' field work and experiences.

Prerequisites: 27 credits and ENG 102

HUM 281 Humanities Cooperative Education II 3 credits

An elective cooperative field experience that provides students with the opportunity to exercise and expand their understanding of the arts and humanities by working with area theaters, galleries, printing companies, televi-

sion and radio stations, community centers, or cultural resource centers. This experience encompasses the administrative as well as the creative aspects of arts- and humanities-related organizations within the community. It also offers exposure to professionals and service-oriented cultural groups within the student's chosen discipline. Fifteen to twenty hours per week of cooperative work experience. Weekly 50-minute seminars to discuss students' field work and experiences.

Prerequisites: HUM 280

LAW

LAW 210 Introduction to Legal Studies 3 credits

A study of the structure of the American legal system, as well as various substantive areas of the law, including torts, family law, contract law, real estate law, criminal law and criminal procedure. The processing of legal reasoning will be explored through analysis of cases, statutes and constitutional provisions. The roles and ethical obligations of legal professionals will also be discussed.

LAW 211 Business Law 3 credits

A study of the sources of law, the Massachusetts and Federal Court systems, steps in civil litigation, and the general principles of contract law.

LAW 214 Principles of Litigation 3 credits

A study of the principles and process of civil litigation through examination and analysis of the Rules of Civil Procedures and the Rules of Evidence. Students will gain insight into the litigation process by conducting mock interviews and investigations and through drafting pleadings, motions, and other litigation-related documents.

LAW 215 (B) Women and the Law 3 credits

This course examines the legal system in the United States and its impact on the lives of women individually and collectively. Topics will include equal protection, Constitutional issues, education, employment, family law, criminal law, reproductive issues and violence against women.

LAW 218 Employment Law 3 credits

A study of employment law for the non-legal professional in Human Resource Management, emphasizing federal and state laws governing the employment process and the relationship between employers and employees.

MEDICAL ASSISTING

MEA 104 Medical Manager 2 credits

This course is designed to teach data entry skills needed by clerical workers staffing a health care facility that maintains an electronic records management capability. Emphasis is placed on basic theory and data input into the Medical Manager software.

MEA 106 Insurance, Coding, Billing & Collections 2 credits

Designed to provide students with an understanding of the health care reimbursement system as it relates to the financial management of a health care facility. It will provide both general and detailed information that will enable the student to better understand the third party reimbursement process, including claims submission and payment.

Prerequisite: ENG 101 eligible

MEA 107 Health Office Practice and Procedures 2 credits

Designed to introduce students to practices and procedures common to the operation of a health care office. Topics include group dynamics, personal strategies for managing time and stress, and techniques of communication that enhance the relationship of the health office staff with clients.

Prerequisite: ENG 101 eligible

MEA 108 Phlebotomy Techniques 2 credits

This introductory course provides the student with the knowledge and utilization of basic phlebotomy skills.

Prerequisite: Eligibility for ENG 101.

MEA 109 Anatomy and Physiology for Medical Assistants 2 credits

Presents an introduction to the human anatomy and physiology with an emphasis on how pathology affects the human body. Physiology will be emphasized in respect to how it causes disease and how the disease is diagnosed and treated.

Prerequisite: Eligibility for ENG 101

MEA 110 Introduction to Medical Assisting 2 credits

This introductory course is designed to provide the student with an orientation into the field of Medical Assisting. The student will explore communication skills, stress reduction; ethnical conduct, legal/ethical issues, and confidentiality/privacy within the health care field.

Prerequisite: ENG 101 eligible

MEA 125 Electrocardiogram for Medical Assistants 2 credits

Designed to introduce the students to the basics of a Twelve-Lead Electrocardiogram. This course will cover anatomy of the heart, details of the electrical activity of the heart, cardiac arrhythmias, and treatment of cardiac arrhythmias based on the standards of the American Heart Association. Students will perform electrocardiography (12-lead EKG) on fellow students.

Prerequisite: Eligibility for ENG 101.

MEA 150 Introduction to Drug Therapy 2 credits

Introduces the major drug classes, their indications, mechanisms of action, and potential for drug-drug or drug-food interactions as well as the fundamental terminology that is essential to understanding the basics of drug therapy. Other basic drug therapy concerns, including age, weight, organ function and body homeostasis will be included. Prescription interpretation, implementing Latin abbreviations used in prescription writing and filling, as well as illustrating the role and contribution of the pharmacy profession within the field of medicine. A basic mathematical aptitude is expected in the application of some topics.

Prerequisite: Eligible to take ENG 101

MEA 210 Clinical Medical Assisting Techniques 3 credits

This course teaches the student the basic components necessary to work in a clinical environment. Topics include obtaining patient history, vital signs, preparing the patient for examination, medical asepsis and sterilization procedures. The student will also become certified in basic first aid and CPR.

Prerequisite: MEA 110 and ENG 101 eligible

MEA 220 Medical Assistant Externship 3 credits

This course is designed to allow students to demonstrate the skills and technical abilities they acquired throughout the Medical Assistant Program. The externship is a non-paying position in a medical facility for a period of 160 hours. This is the last course in the Medical Assisting Certificate sequence.

Prerequisite: None. Additional Course Fee: \$15.00 Malpractice Insurance (The fee is subject to change.)

MANAGEMENT

MGT 230 Principles of Management 3 credits

Each of the managerial functions--planning, organizing, directing, and controlling--is discussed from the standpoint of how all four interrelate to become the management process. Managerial skills necessary to accomplish these functions are also described, including human relations, decision making, and communication.

MGT 231 Human Resource Management 3 credits

Survey of the principles, problems, and practices of modern business in the management of the work force, from recruitment through retirement. Emphasis is on the use of appropriate practices in firms of various types and sizes.

MGT 235 Entrepreneurship 3 credits

An entrepreneur is an individual who creates a new business in the face of risk and uncertainty for the purpose of achieving profit and growth objectives by identifying significant opportunities and assembling the necessary resources to capitalize on them. This course will provide students with an introduction to what it takes to be a successful entrepreneur, including recognizing opportunities in the marketplace and the elements of a professional business plan. Topics covered will include: the marketing strategy; legal considerations; organizational strategies; financial planning and controls; the management team; the concept of social entrepreneurship.

MGT 236 Entrepreneurship II - Small Business Formation 3 credits

This course is designed to take students step-by-step through the preparation process to open a small business. Upon completion of the course, each student will have prepared a business plan and will have the knowledge and expertise to assist them in developing adequate capitalization for his/her venture. This plan may be built on a student's individual business concept or on a business concept provided by the instructor.

Prerequisites: MGT 235 and MKT 240 or permission of instructor

MARKETING

MKT 110 Principles of Retailing 3 credits

Introduces the basic concepts and methods of retail store management and merchandising. Topics include the various types of retail operations, store facilities management, retail location, logistics systems, retail control systems, customer communications, legal and ethical; aspects of retailing, and human resource management in a retail environment.

MKT 211 Field Experience 6 credits

A cooperative field experience that provides the student with the opportunity to gain knowledge of a store's policies, systems and basic job responsibilities. A complete exposure to the overall operation of the store affords an opportunity to gain experience in customer service, sales, management and merchandising.

Prerequisites: MKT 110

MKT 226 Principles of Advertising 3 credits

A study of basic advertising principles for the promotion of consumer and industrial products to the appropriate market segments. Includes a study of advertising media, including newspapers, magazines, radio, television, out-

of-home, sales promotion, and direct mail. Also reviews the legal and societal aspects of advertising.

MKT 227 Customer Service and Sales 3 credits

Demonstrates the strong link between quality service and profitable sales as a means to increase market share. Emphasis is on developing effective sales techniques, communication skills, product knowledge, and consumer behavior.

MKT 240 Principles of Marketing 3 credits

A study of the basic marketing principles, functions, and institutions. Emphasis is on marketing concepts; the role of the consumer; and characteristics of retail, wholesale, industrial, and commodities marketing. The relationship of marketing to the behavioral sciences is emphasized.

Placement in Mathematics

The Mathematics Placement Examination (MPE) helps determine that students are properly prepared for mathematics courses. The MPE is given at several times during the year or on demand. Detailed information will be sent to all newly admitted students. Students currently enrolled at the college who have never taken the MPE and who wish to take one of the courses for which it is a prerequisite should make arrangements in the assessment center, FR 273, to take the MPE. Some students may need to take one or more developmental mathematics courses. There are three starting points in the developmental sequence, depending on the score on the MPE: Basic Mathematics (MTH 075), Introductory Algebra (MTH 085), and Intermediate Algebra (MTH 095). A grade of C- or better is required to enter successive developmental courses. Students receiving a D grade in a developmental course will receive credit for the course, but will not be eligible to enter the successive developmental course.

MATHEMATICS

MTH 010 Math Study Skills 1 credit

Includes math study strategies and supplemental instruction for students who are currently or will be taking developmental math courses. Credits earned in this course do not count toward the total credits required for graduation.

MTH 075 Basic Mathematics 4 credits

Arithmetic Skills, operations on numbers, fractions, decimals, calculation, measurement, equations, formulas, elementary geometry, and problem solving. Credits earned in this course do not count toward the total credits required for graduation.

MTH 079	Prealgebra	6 credits
	A pre-algebra approach to arithmetic skills, operations on whole numbers, integers, fractions, decimals, calculation, measurement, formulas, elementary geometry, problem solving by integrating basic algebraic expressions, equations, and graphing. Credits earned in this course do not count toward the total credits required for graduation.	
	<i>6 class hours</i>	
MTH 085	Introductory Algebra	4 credits
	An introduction to the ideas, notation, and techniques of elementary algebra, graphs, and problem solving. Credits earned in this course do not count toward the total credits required for graduation.	
	<i>Prerequisite: MTH 070 or MTH 075 or 079, with a grade of C- or better, or adequate score on the Mathematics Placement Examination</i>	
MTH 095	Intermediate Algebra	4 credits
	An intermediate-level study of topics in algebra, graphs, and problem solving. Credits earned in this course do not count toward the total credits required for graduation.	
	<i>Prerequisite: MTH 085 with a grade of C- or better, or adequate score on the Mathematics Placement Examination</i>	
MTH 099	Introductory and Intermediate Algebra	6 credits
	An introduction and an intermediate-level study of the ideas, notations, and topics in algebra, graphs, and problem solving. Credits earned in this course do not count toward the total credits required for graduation.	
	<i>6 Class Hours</i>	
	<i>Prerequisite: MTH079 with a grade of C- or better or adequate score on Mathematics Placement Examination</i>	
MTH 100	Problem Solving Seminar	1 credit
	This "studio" course is about solving non-routine, interesting, and somewhat challenging problems in elementary mathematics, outside the context of a regular course. Students may expect to use the math that they already know, but may also need to discover new methods in mathematical problem solving. Doing problems, both alone and in groups, is the major part of the course, but strategies for solving problems will also be examined. Some mathematics new to the student will inevitably be learned along the way. A requirement of the course is to take part in the AMATYC-sponsored Student Mathematics League Math Competition (for intersession or summer students, we will simulate that experience since the competition takes place in fall and spring only). This course is recommended for mathematics, science, or engineering majors who hope to do creative work in their field, and for anyone who loves to work on puzzles or solve problems from	

	a mathematical perspective.	
	<i>Prerequisite: MTH 095 or MTH 099 with a grade of C- or better or adequate score on the MPE.</i>	
MTH 104(D)	College Algebra	4 credits
	A college-level course including more advanced topics in algebra, functions, graphs, and problem solving.	
	<i>Prerequisite: MTH 095 or MTH 099 with a grade of C- or better or adequate score on the MPE.</i>	
MTH 108(D)	Precalculus	4 credits
	A study of algebraic, trigonometric, exponential and logarithmic functions as a preparation for calculus. Topics include graphs, operations, inverses, translation of graphs, equations and inequalities, mathematical modeling and other applications. Students may not receive credit for both MTH 107 and MTH 108.	
	<i>Prerequisites: MTH 104 with a grade of C- or better, or adequate score on the Mathematics Placement Examination.</i>	
MTH 111 (D)	Calculus and Analytical Geometry I	4 credits
	Graphs, functions, limits, continuity, the derivative, Mean Value Theorem, extrema, and other applications.	
	<i>Prerequisite: MTH 107, MTH 108, or adequate score on the Mathematics Placement Examination.</i>	
MTH 112 (D)	Calculus and Analytical Geometry II	4 credits
	The integral, the Fundamental Theorem of Calculus, differentiation and integration of transcendental functions, techniques of integration, areas, volumes, and other applications.	
	<i>Prerequisite: MTH 111</i>	
MTH 113 (D)	Calculus I	4 credits
	Functions, limits, continuity, the derivative, applications, the integral, the fundamental theorem of calculus.	
	<i>Prerequisite: MTH 108 or adequate score on the Mathematics Placement Exam</i>	
MTH 114 (D)	Calculus II	4 credits
	Antiderivatives, techniques of integration, application, infinite series, approximating functions, Taylor series.	
	<i>Prerequisite: MTH 111 or MTH 113</i>	

MTH 120 (D) Technical Math	4 credits	<p>Consists of a quick review of arithmetic, introduction to calculators, scientific notation, the metric system, exponents and radicals, solution of linear and quadratic equations, topics in statistics, the rectangular coordinate system, exponential and logarithmic functions, the right triangle, and selected topics from trigonometry with applications in applied fields. Topics and emphasis may vary depending on the composition of the class.</p> <p><i>Prerequisite:</i> MTH 070 or MTH 075 with a grade of C- or better or passing score on the Mathematics Placement Examination</p>	<p>parameters, testing hypotheses, regression and correlation, analysis of variance, and other topics in statistical inference.</p> <p><i>Prerequisite:</i> MTH 095 or MTH 099 with a grade of C- or better or adequate score on the MPE.</p>
MTH 125 (D) Number Systems	3 credits	<p>This course is designed for Elementary Education and Early Childhood majors. This is an introductory course on number systems. Topics include the development and properties of various number systems as well as operations and different representations within these number systems. Systems explored will include integers, rational numbers, real and complex numbers along with bases other than 10. Verbal explanations and multiple representations will be stressed.</p> <p><i>Prerequisite:</i> MTH 095 or MTH 099 with a grade of C- or better or adequate score on the MPE.</p>	MTH 150(D) Symbolic Logic 3 credits
MTH 130 Math That Matters: Drugs and Dosages	3 credits	<p>Intended for students in the Veterinary Technician program, or other individuals in the health professions who have the responsibility for the preparation and administration of medications. Mathematical fundamentals will be covered along with systems of measurement and their equivalents, unit conversions, dosage measurement equipment, interpretation of the medication order, calculation of oral, parenteral and intravenous drug dosages, percentage preparations and dilution and concentration.</p> <p><i>Prerequisite:</i> MTH 095 or MTH 099 with a grade of C- or better or adequate score on the MPE.</p>	<p>Mathematical and scientific truths; formal symbolic logic, arguments, methods of proof, quantification, basic concepts of sets and set operations, and Boolean Algebra and its relation to statement calculus.</p> <p><i>Prerequisite:</i> MTH 095 or MTH 099 with a grade of C- or better or adequate score on the MPE.</p>
MTH 135 (D) Patterns, Reasoning and Algebra	3 credits	<p>This course is designed for Elementary Education and Early Childhood majors. It is an introductory course to patterns and algebraic reasoning. Topics include: finding, analyzing, and describing patterns; sets and classification; functions and relations; inductive and deductive reasoning; problem solving; and logic. Verbal explanations and multiple representations will be stressed.</p> <p><i>Prerequisite:</i> MTH 095 or MTH 099 with a grade of D- or better or equivalent score on the Mathematics Placement Examination</p>	MTH 155(D) Topics in Mathematics 3 credits
MTH 142(D) Statistics	3 credits	<p>"Graphical description of data, measures of central tendency and variability, probability and probability distributions, central limit theorem, estimation of</p>	<p>An exploratory course in mathematics for the Liberal Arts student. Topics may include mathematical logic, algebra of sets, Boolean algebra, permutations and combinations, probability, statistics, transfinite and finite numbers, bases other than 10, group theory, history of mathematics, puzzles and paradoxes, the mathematics of finance, or others chosen by the instructor.</p> <p><i>Prerequisite:</i> MTH 095 or MTH 099 with a grade of C- or better or adequate score on the MPE.</p>
			MTH 160(D) Introduction to Matrices and Linear Programming 3 credits
			<p>For students in Business. Topics covered include vectors, matrices, determinants, systems of linear equations, the Gauss-Jordan method, and linear programming with business applications.</p> <p><i>Prerequisite:</i> MTH 095 or MTH 099 with a grade of C- or better or adequate score on the MPE.</p>
			MTH 162(D) Applied Calculus 3 credits
			<p>The elements of calculus: functions, limits, the derivative, antiderivatives and definite integrals, with applications to business.</p> <p><i>Prerequisite:</i> MTH 104 with a grade of C- or better or adequate score on the Mathematics Placement Examination</p>
			MTH 172(D) Mathematics of Finance 3 credits
			<p>A mathematics course designed to enrich the student's understanding of classic financial models including simple and compound interest, annuities and varied applications as found in business management and investments. The business calculator and spread sheet analysis will be featured throughout the course.</p> <p><i>Prerequisite:</i> MTH 097 or MTH 095 or MTH 099 with a grade of C- or better, or adequate score on the Mathematics Placement Examination</p>

MTH	205(D)	Linear Algebra	3 credits
		Fundamental concepts of linear algebra: systems of equations, matrices, determinants, vector spaces, eigenvectors, and eigenvalues, with applications. <i>Prerequisite: MTH 112 or MTH 114, previously or concurrently</i>	
MTH	211(D)	Linear Algebra	4 credits
		Limits involving infinity, improper integrals, infinite series, power series, polar coordinates, conic sections, vectors and vector calculus in the plane, and plane curves. <i>Prerequisite: MTH 112</i>	
MTH	212(D)	Calculus and Analytical Geometry 4	4 credits
		Vectors and vector calculus in 3-space, cylindrical and spherical coordinates, surfaces and curves, functions of several variables, multiple integrals, vector fields, line and surface integrals, Green's, Divergence, and Stokes' Theorems. <i>Prerequisite: MTH 211</i>	
MTH	213(D)	Calculus III	4 credits
		Vectors in two and three dimensions, vector-valued functions, partial derivatives, multiple integrals, line and surface integrals. <i>Prerequisite: MTH 114</i>	
MTH	214(D)	Differential Equations	3 credits
		First order and simple higher-order ordinary differential equations, linear equations, Laplace transforms, additional topics, and applications <i>Prerequisite: MTH 212 or MTH 213, previously or concurrently</i>	
MTH	230(D)	Discrete Mathematics	3 credits
		Topics will be chosen from analysis of algorithms, feasibility, intractability, graph theory and trees, induction and recursion, counting techniques, and Boolean algebra. A rigorous course dealing with both theory and applications. <i>Prerequisite: MTH 113</i>	
MTH	245(D)	Probability and Statistics for Engineers & Scientists	3 credits
		Probability and statistical theory, with primary emphasis on engineering applications. Students will utilize techniques of collection, analysis and interpretation of experimental data, and will also explore probability modeling using discrete and continuous random variables. An examination of estimation and inference will be conducted through the use of confidence intervals and hypothesis testing, and the additional topics of regression, correlation,	

and analysis of variance (ANOVA) will round out the student's foundational knowledge.

Prerequisite: MTH 112 or MTH 114

MEDICAL RECORD TECHNOLOGY - See Health Information Management

MUSIC

(Fall sequence courses must be taken in order.)

MUS	100(C)	Music Fundamentals	3 credits
		Open to all students who want to learn how to read music and learn introductory music theory. Covers reading and writing pitches and rhythmic patterns, major and minor scales and key signatures, intervals, and chords. Also provides a basic introduction to the keyboard. No previous experience is necessary.	
MUS	105(C)/ 107(C)/208(C)/ 209(C)	Music Theory 1, 2, 3, 4	3 credits
		A study of the theoretical principles, formal designs, and stylistic tendencies associated with Western music from the 18th century to the present. The course emphasizes analysis, written exercises using computer notation software, and creative composition. Theory 1 includes a review of the fundamentals, followed by figured bass, Roman numeral analysis, cadences, non-chord tones, instrument transpositions, and melodic and textural organization. Theory 2 continues with voice leading in two and four voices, harmonic progression, seventh chords, secondary dominants, and modulation. Theory 3 covers chromatic harmony and an introduction to eighteenth century counterpoint. Theory 4 includes analysis of form, extended harmonies of the Romantic period, and twentieth century and contemporary compositional techniques. Courses must be taken in sequence. <i>Prerequisite: (for Theory 1) MUS 100 with a grade of "B" or better, or equivalent</i>	
MUS	106(C)	Introduction to World Music	3 credits
		An introductory appreciation course, open to all students. Explores music outside the Western European tradition, including music of Polynesia, Native North America, Latin America, Africa and Black America, Eastern Europe, the Mideast, Indonesia, India, and Japan. Specific topics chosen from these areas will be studied.	
MUS	110(C)	Introduction to Classical Music	3 credits
		An introductory appreciation course, open to all students. Explores the nature and meaning of artistic creativity and aesthetic judgment in the music of Western European tradition.	

MUS 111/112/213/214 Holyoke Civic Orchestra 1, 2, 3, 4 1 credit

A community activity that combines the talents of qualified college and high school musicians, adult amateur, and professional musicians. Enrolled students are expected to participate in all rehearsals and the series of scheduled concerts.

Prerequisite: Permission of the instructor

3 class hours each

MUS 115/116/117/118/125 Voice, Woodwind, String, Brass, and Percussion Methods 1 credit

Open to all students. Provides the training needed to teach others in specific areas of instrumental or vocal music. Emphasis is on gaining performance skill, discussing literature and its historical significance, and arranging for the specific instrumental or vocal groups involved.

Pre-Corequisite: MUS 100, or equivalent

2 class hours each

MUS 121/122/127/128/223/229/224/230 Instrumental/Vocal Ensembles 1, 2, 3, 4 1 credit

Performance oriented music groups, open to all students with appropriate performance skills. Students may enroll in one or more of the following categories: Brass-Wind, Electric Bass, Classical Guitar, Jazz Guitar, Early Music, Percussion, World Music, Piano, and Chamber Vocal. Specific instrumentation of some ensembles may warrant the necessity of an audition.

MUS 131/132/233/234 Aural Skills 1, 2, 3, 4 1 credit

The various practical application levels of Aural Skills are coordinated with appropriate levels of Music Theory. Emphasis is on the development of sight singing and ear training skills: learning solfege; conducting/counting rhythm patterns, taking rhythmic and melodic dictation; and singing and identifying scales/modes, intervals, chords, and harmonic progressions. The computer is used as a learning tool to assist in developing these skills.

Prerequisite: MUS 131

Co-requisite: The corresponding level of Music Theory 105-209

2 class hours each

MUS 135/136/237/238 Class Piano 1, 2, 3, 4 1 credit

Open to all students. Deals with basic piano technique, with emphasis on playing scales, intervals, and chords. This technique is used to develop sight-reading skills and a melodic awareness at the keyboard. No previous training is required for MUS 135; students with basic piano background may enter at a level appropriate to their skills, as determined by the instructor.

2 class hours each

MUS 140(C) Introduction to Jazz 3 credits

Open to all students. Traces the history of jazz from its African roots to the present, covering its development through specific historical eras, including the African retentions in American jazz, work songs, spirituals, blues, early syncopated music, ragtime, the music of New Orleans, swing, big band, small combos, bebop (modern jazz), avant garde, and contemporary.

MUS 141/142/243/244 Jazz Ensemble 1, 2, 3, 4 1 credit

Open to all students with appropriate performance skills. A creative ensemble performing representative music of the jazz tradition. Instrumentation balance may warrant the necessity of audition.

3 class hours each

MUS 150(C) Topics in Music 3 credits

This course provides in-depth college-level study of a particular composer, era, style, or other area of interest in the field of music. The emphasis will be on the study of music in the humanities, exploring subject matter in terms of music history and literature, typical formal structures, technical issues, and/or comparison with other related arts. No previous musical experience is required. Topics will rotate, and selection will depend on the particular expertise of the faculty teaching the course.

Prerequisite: Eligibility for ENG 101

MUS 151/152/253/254 Jazz Improvisation 1, 2, 3, 4 2 credits

A performing class studying the repertoire and dealing with the techniques of jazz improvisation, including the use of scales in relation to jazz chord progressions, analysis of jazz styles and their harmonic progressions, and the practical use of instruments in the modern ensemble. Prerequisite: Music 100 with a grade of B or better or permission of the instructor.

MUS 151 Prerequisite: MUS 100 with a grade of B or better or permission of the instructor.

MUS 152 Prerequisite: MUS 151

MUS 253 Prerequisite: MUS 152

MUS 254 Prerequisite: MUS 253

MUS 155/156/257/258 Concert Band 1, 2, 3, 4 1 credit

Performance-oriented music group open to all students with appropriate performance skills. Students may be required to audition.

3 class hours each

MUS 161/162/263/264 College Chorale 1, 2, 3, 4 1 credit

Open to all students. The College Chorale, a performing mixed chorus, presents public concerts of a high musical standard, with repertoire chosen from representative choral literature. The Lab Chorale develops the basic skills of music reading and the fundamentals of singing. A major goal of both chorale divisions is to provide students an opportunity to develop a "singing style" in all music that they create. During the first week of classes, students will be auditioned and placed in either the College Chorale or the Lab Chorale.

MUS 171/172/273/274 Applied Music for Majors 1, 2, 3, 4 2 credits

The serious study of individual music performance, through practical application of the major concentration. Each student will be assigned an Applied Music Instructor with whom he or she will study privately. Attendance is also required at both a weekly class and designated music concerts.

Prerequisite: Audition; Additional course fee: A \$12 music fee is charged for the private instruction (The fee is subject to change.)

MUS 180 Introduction to Music Technology 3 credits

A summation of the fundamental areas of music technology including: analog basics, sound reinforcement, microphone technique, digital theory and recording, mixing and mastering, MIDI sequencing, computer synthesis, computer notation, and experimental electronic music. Lectures will be followed by sessions in which all students will participate in using the HCC studio. MUS/THE

181/182 Musical/Theater Workshop I and II 3 credits

Performance-oriented workshop experience that develops vocal performance skills, with some attention to stage movement and acting skills, through the rehearsal and presentation of songs and scenes from selected musical theater works.

MUS 181

Prerequisite: Previous auditioned placement into College Chorale (MUS 161.01) or Chamber Vocal Ensemble (MUS 121.05 or MUS 127.05), or permission of the instructor. New students will be auditioned the first day of class, and should be prepared for a possible schedule adjustment during the add/drop period, if necessary. (same as THE 181).

MUS 182

Prerequisite: MUS 181 or THE 181 (same as THE 182).

MUS 191/192/293/294 **Applied Music Non-Major 1, 2, 3, 4** **1 credit**

Private music lessons open to any student at any music performance level. Offered on most musical instruments or in voice. Each student will be assigned an Applied Music Instructor with whom he or she will study privately. In addition to the lessons, attendance is also required at both a weekly class and designated music concerts.

Prerequisite: None. Students may register for a 30-minute lesson by selecting an .01 section or 50-minute lesson by selecting an .02 section. Additional course fee: A \$357 music fee is charged for the 30-minute lesson and \$612 for the 50-minute lesson. (The fee is subject to change).

MUS 250(C) **Advanced Topics in Music** **3 credits**

This course provides semester-long study of a topic outside the typical community college core curriculum. These topics would be covered in only a preliminary way in other department courses. It is intended for students with a background in Music. Topics will rotate, and selection will depend on the particular expertise of the faculty teaching the course. Possible topics include Conducting, Arranging, Orchestration, and Analysis.

Prerequisites: MUS 107 (Music Theory 2), eligibility for ENG 101

MUS 259(C)/260(C) **Music Literature 1, 2** **3 credits**

Representative music compositions of the Western European tradition are studied critically in their historical setting: Ancient, Medieval, Renaissance, Baroque, and the early Classic periods.

MUS 259

Prerequisite: ENG 102; Co-requisite: MUS 208 or permission of instructor.

MUS 260

Prerequisite: MUS 259.

NUTRITION

NTR 101 **Introduction to Nutrition** **3 credits**

An introduction to the science of nutrition as it applies to everyday life. Students will learn how to apply the logic of science to their own nutritional concerns. Topics include the six major nutrients: carbohydrates, fats, proteins, vitamins, minerals, and water. The course also will examine energy balance, weight control, the digestive process, nutrition fads, supplements, fiber, and disease as it relates to nutrition and fitness. A dietary computer application is used throughout the semester to track personal dietary, energy, and fitness.

Prerequisite: Eligibility for ENG 101

NTR 201 **Nutrition Through the Life Cycle** **3 credits**

A course designed to examine nutritional requirements needed for health promotion and disease prevention for each stage of the life cycle including: prenatal, infant, toddler, teenage, maternal, middle age, and senior. Sports nutrition, eating disorders, stress, food safety, and global nutrition will also be presented as it correlates to the cultural, psychosocial, and physical factors of human growth, development, and maintenance. Students will design diet plans for the different stages of the life cycle so that learned nutrition principles can be applied.

Prerequisite: NTR 101

NTR 210 **Topics in Diet Theory** **3 credits**

In this course, students will explore a variety of traditional and modern dietary theories in order to gain a better understanding of traditional diets and fad diets that affect people's food choices. Students will look at scientific evidence that supports each diet theory, learn the dietary practices associated with each theory, and analyze the nutrition and health consequences that may result from following these diet practices.

Prerequisite: HFN 105 or NTR 101

NTR 230 **Nutrition Science for Nutrition Majors** **3 credits**

An introduction to the science of nutrition for nutrition majors. Topics include the six essential nutrients: carbohydrates, lipids, proteins, vitamins, minerals, and water. For each nutrient, the following is discussed: chemical structures, physical characteristics, digestion, absorption, and metabolism, role in the body, effects of deficiency and excess, food sources, and human requirements at various life stages.

Prerequisites: BIO 100, BIO 217

Pre-/Co-requisite: CHM 221.

NURSING – ASSOCIATE DEGREE

NUR/PNR 170 **Fundamentals of Nursing** **9 credits**

The students will identify and explore knowledge, skills and attitudes underlying the key components of nursing practice. These include therapeutic communication, assessment, clinical decision making, health promotion and disease prevention. Utilizing caring interventions, students will begin to implement safe clinical practice. Nursing students will be registered for either NUR 170 or PNR 170 - cross listed course.

Prerequisite: Acceptance into Nursing Program

Pre-/Co-Requisite: BIO 217, PNR 171, NUR/PNR 172, PSY 110

4 Lecture Hours; 3 Laboratory Hours; 12 Clinical Hours;
Additional Course Fees: Neehr Perfect \$55, NLN Testing \$100, \$200 Lab Kit, \$15 Malpractice Insurance (Fees are subject to change.)

NUR/PNR 172 Role Development I 2 credits

Students will gain an understanding of the role of the professional nurse. Students will explore the history of nursing, nursing education, and elements of professionalism. Student will identify contemporary issues and trends impacting nursing practice today. The health care delivery system will be examined as it relates to current nursing practice.

Prerequisite: Acceptance into the Nursing Program
Pre-/Co-Requisite: BIO 217 and PSY 110;
Co-Requisite: NUR/PNR 170 and PHM 171

1.5 Lecture Hours; 1.5 Laboratory Hours

NUR/PNR 180 Health Promotion and Maintenance Across the Lifespan 9 credits

Students will build upon the knowledge, skills, and attitudes of nursing fundamentals to apply health concepts in the various health care settings. Students will explore health maintenance concepts and common health concerns with specialized populations across the life span. This course is a cross listed course NUR/PNR 180.

Prerequisites: NUR/PNR 170, NUR/PNR 172, PHM 171 - PNR 182
(for PN students only)
Pre-/Co-requisite: BIO 218, PSY 216
Co-requisite: PHM 181

4 Lecture Hours; 3 Laboratory Hours; 12 Clinical Hours

NUR 270 Acute Care Across the Lifespan 8 credits

Students will research common, acute and chronic illnesses and the impact of these illnesses on patients across the lifespan. Students will utilize increasingly complex knowledge, skills & attitudes to provide nursing care to patients experiencing acute and chronic illnesses in various health care settings.

Prerequisites: NUR/PNR 180, PHM 181
Pre-/Co-requisite: ENG 101, BIO 229
Co-requisite: PHM 271
Additional Course Fees: Neehr Perfect \$55, NLN Testing \$100, \$200 Lab Kit, and \$15 Malpractice Insurance
(Fees are subject to change.)

3 Lecture Hours; 3 Laboratory Hours; 12 Clinical Hours

NUR 280 Complex Care Across the Lifespan 8 credits

Students will attain and synthesize knowledge, skills, and attitudes necessary for entry-level nursing practice. Students will use case-based learning to investigate complex conditions and the implications for nursing practice in various health care settings.

Prerequisites: NUR 270, PHM 271
Pre-/Co-requisites: ENG 102, SOC 110
Co-requisites: NUR 282, PHM 281

3 Lecture Hours; 3 Laboratory Hour; 12 Clinical Hours

NUR 282 Role Development 2 2 credits

Students will prepare for the transition from student role to entry level nurse. Students will explore political, professional and legal and ethical issues.

Prerequisites: NUR 270, PHM 271
Pre-/Co-requisites: ENG 102, SOC 110
Co-requisites: NUR 280, PHM 281
1.5 Lecture Hours; 1.5 Laboratory Hours

PHILOSOPHY

PHI 100(C) Mythology 3 credits

All cultures have their own myths. Are myths merely fictions, make-believe stories that distract us from more careful consideration and reflection about the world around us? To determine the meaning of myths, this course addresses the following questions: Do myths present other ways of knowing the world which science and philosophy cannot achieve? What might myths tell us about ourselves, other peoples, and the natural world?

PHI 101(C) Introduction to Philosophy 3 credits

A basic introduction to central questions in Western philosophy: Does God exist and how are we certain one way or the other? Does science provide reliable evidence about the way the world works? Do people have minds, souls, or are they just bodies? What makes an act the right thing to do? What is the difference between good art and bad art? Does life have no, one, or many meanings? Such questions are addressed reading classical texts in philosophy, and by arguing about these views.

PHI 103(C) Clear Thinking/Sound Reasoning 3 credits

Students will learn how to improve their ability to think and reason, to better understand the basis for their opinions, and to build convincing arguments in discussions and debates. By discussing controversial moral and political topics and examining scientific studies, opinion polls, and newspaper editorials students will learn ways one should not argue (by using what philosophers call fallacious reasoning) and then learn how to make more effective arguments.

PHI 110(C) Comparative Religion 3 credits

A comparative study of the major world religions, such as Hinduism, Buddhism, Judaism, Christianity, Islam, Confucianism, and Taoism, emphasizing their spirituality, beliefs, traditions, and rituals, as well as their historical development. Also critically examines selections of their scriptures.

PHI 120(C) Ethics 3 credits

Focuses on how to make better philosophical arguments about moral matters and thus how to make more informed decisions in a morally complex world. Discusses some central moral theories (such as natural law, utilitarianism, Kantian moral theory, virtue ethics, and feminist moral theories) which have informed Western philosophy's views on ethical decision-making. May address different philosophical arguments on issues such as abortion, animal rights, and the death penalty.

PHI 130(C) Topics in Philosophy 3 credits

A detailed examination of a particular debate or controversy in a specific aspect of philosophy. This may include such topics as philosophy and religion, specific philosophers, aesthetics, social and political philosophy, existentialism, phenomenology, feminism, environmental or medical ethics, and philosophy of law.

PHI 140(C) Environmental Ethics 3 credits

This course is an introduction to the study of the different approaches to how one should treat the natural environment. Beginning with a historical overview of various indigenous technical and cultural knowledges, and then progressing to assess literature on environmental concerns, the course will proceed to interrogate such philosophical concepts as ecology, alienation, web of relations, dominant hierarchies, stewardship, survival, among others. Finally, more recent developments in contemporary philosophy such as eco-feminism, naturalist ethics, and ecological postmodernism will be explored.

Prerequisite: SEM 112

PHI 230(C) Topics in Philosophy 3 credits

A detailed examination of a particular debate or controversy in a specific aspect of continental or analytic philosophy. This might include such topics as philosophy of law, philosophy of history and history of philosophy, philosophy of science, 20th century thinkers, philosophy of religion, aesthetics, social and political philosophy, existentialism and phenomenology. Students will be expected to complete a research paper as part of their coursework. The topic will be announced in advance.

Prerequisite: Any PHI 100-level course

PHARMACY SCIENCE AND TECHNOLOGY

PHM 171 Pharmacology I 1 credit

Pharmacology is the study of the action of drugs and how certain disease states are affected by these chemical interventions. This course will introduce the knowledge, skills, and attitudes necessary to continuously improve the quality and safety of the healthcare provided while preparing and administering medications to patients with stable or well managed health issues.

Students will identify medications administered to prevent illness and manage common stable health conditions. Common topics to be discussed will include, names of medication (Generic and Brand), classification of drugs, indications for use, contraindication for use, therapeutic dose range, adverse effects and nursing implications.

Prerequisite: Acceptance into the nursing program.

Pre-/Co-requisite: BIO 217, PSY 110

Co-requisites: NUR/PNR 170, NUR/PNR 172

1 lecture hour

PHM 181 Pharmacology II 1 credit

Students will continue to expand upon the knowledge, skills, and attitudes necessary to continuously improve the quality and safety of the health care provided while preparing and administering medications to patients across the life span. Students will continue to identify medications that are administered for the promotion and maintenance of health including specialized populations. Common topics that will be discussed will include names of medications (Generic and Brand), classification of drugs, indications for use, contraindications for use, therapeutic doses, adverse effects and nursing implications.

Prerequisites: NTR 101, NUR/PNR 170, PHM 171, NUR/PNR 172, PNR 182

Pre-/Co-requisites: BIO 218, PSY 216

Co-requisites: NUR/PNR 180

1 lecture hour

PHM 271 Pharmacology III 1 credit

Students will continue to expand upon the knowledge, skills, and attitudes necessary to continuously improve the quality and safety of the health care provided while preparing and administering medications to patients across the life span. Students will continue to identify medications that are administered for the patient experiencing acute and chronic illnesses in various health care settings. Common topics that will be discussed will include names of medications (Generic and Brand), classification of drugs, indications for use, contraindications for use, therapeutic doses, adverse effects and nursing implications.

Prerequisites: NUR/PNR 180, PHM 181

Pre-/Co-requisites: ENG 101, BIO 229

Co-requisite: NUR 270

1 lecture hour

PHM 281 Pharmacology IV 1 credit

Students will synthesize knowledge, skills, and attitudes necessary to continuously improve the quality and safety of the health care provided while preparing and administering medications to patients across the life span. Students

will continue to identify medications that are administered for complex and critical conditions and the implications for nursing practice in various health care settings. Common topics that will be discussed will include names of medications (Generic and Brand), classification of drugs, indications for use, contraindications for use, therapeutic doses, adverse effects and nursing implications.

Prerequisites: NUR 270, PHM 271

Pre/Co-requisites: ENG 102, SOC 110

Co-requisites: NUR 280, NUR 282

1 lecture hour

PHYSICS

PHS 101(D) General Physics I 4 credits

The principles of mechanics and fluids. Covers vectors, motion, and Newton's Laws, the Conservation Laws, gravitation, work and energy, and concepts of fluids. Applied trigonometry is taught when needed. Prerequisite: MTH 104, previously or concurrently or adequate score on the Mathematics Placement Examination.

Prerequisite: MTH 104, previously or concurrently or adequate score on the Mathematics Placement Examination.

PHS 102(D) General Physics II 4 credits

Basic concepts and principles of electricity and magnetism, light, and modern physics. Topics include Coulomb's Law, electric field, potential, current, resistance, magnetic fields, inductance, DC circuits, AC circuits, reflection, refraction, lenses, interference, diffraction, polarization, and atomic and nuclear relationships.

Prerequisite: PHS 101

PHS 111(D) Physics for Engineers and Science Majors I 4 credits

The study of particle kinematics and dynamics, work and energy, conservation laws of energy and linear momentum, rotational kinematics and dynamics, conservation of angular momentum, and simple harmonic motion. Calculus is used throughout the course.

Co-requisites: MTH 111 or MTH 113

PHS 112(D) Physics for Engineers and Science Majors II 4 credits

Concepts and principles of electricity and magnetism leading to Maxwell's equations. Topics covered are charge and matter, Gauss' Law, electrical potential, capacitors and dielectrics, current and resistance, magnetic field, Ampere's Law, Faraday's Law, inductance, electromagnetic oscillations, alternating current, and electromagnetic waves.

Prerequisites: PHS 111

Pre-/Co-requisite: MTH 112 or MTH 114

PHS 201(D) Physics for Engineers and Science Majors III 4 credits

An introduction to wave theory and optics with major emphasis on modern physics. Topics include wave motion, relativity, the quantum theory of light, the particle nature of matter, matter waves, quantum mechanics in one and three dimensions, atomic structure, solid state physics, and nuclear structure.

Prerequisite: PHS 112

Co-requisite: MTH 212 or MTH 213

PRACTICAL NURSING (LPN)

PNR/NUR170 Fundamentals of Nursing 9 credits

The students will identify and explore knowledge, skills and attitudes underlying the key components of nursing practice. These include therapeutic communication, assessment, clinical decision making, health promotion and disease prevention. Utilizing caring interventions, students will begin to implement safe clinical practice. Nursing students will be registered for either NUR 170 or PNR 170 - cross listed course.

Prerequisite: Acceptance into Nursing Program;

Pre-/Co-Requisites: BIO 217, NUR 171, NUR 172, PSY 110

Additional Course Fees: Neehr Perfect \$55, NLN Testing \$100, \$200 Lab Kit, and \$15 Malpractice Insurance (Fees are subject to change.)

Lecture Hours; 3 Laboratory Hours; 12 Clinical Hours

PNR/NUR172 Role Development I 2 credits

Students will gain an understanding of the role of the professional nurse. Students will explore the history of nursing, nursing education, and elements of professionalism. Student will identify contemporary issues and trends impacting nursing practice today. The health care delivery system will be examined as it relates to current nursing practice.

Prerequisite: Acceptance into the Nursing Program;

Pre-/Co-Requisites: BIO 217 and PSY 110

Co-Requisite: NUR/PNR 170 and PHM 171

1.5 Lecture Hours; 1.5 Laboratory Hours

PNR/NUR182 Practical Nurse Role Development II 2 credits

This course continues to address contemporary professional issues that impact the transition into the practice of Practical Nurse. The student will learn leadership and management skills that will affect the Practical Nurse.

Prerequisites: NUR/PNR 172, NUR/PNR 170

Pre-/Co-requisite: NTR 101

1 Lecture Hour; 1 Clinical Hour

PNR/NUR190 Practical Nurse Acute and Complex Care 3 credits

Students will attain and synthesize the knowledge, skills and attitudes essential for entry level practice. Utilize acute and complex patient care experiences, the student will incorporate and continue to build on previously learned knowledge, skills and attitudes. Learning will be facilitated through case based and simulation experiences, as well as clinical partnerships.

Prerequisite: NUR/PNR 180, PHM 181

1 Lecture Hour; 2 Clinical Hours;

POLITICAL SCIENCE

POL 101(B) Introduction to Political Science 3 credits

An introduction to the scope and methods of political science. Particular attention will be given to the historical development of such basic political concepts as politics, power, the state, justice, authority, constitutions and citizenship, personhood, equality, representation, liberty, institutions, and ideology. Various methods used by political scientists to analyze political life and organization will also be studied.

Prerequisite: Eligible to enroll in ENG 101.

POL 110(B) U.S. National Government 3 credits

An introduction to the structure, functions, and politics of the United States national (federal) government within its historical, constitutional, social, and theoretical context.

POL 120(B) State and Local Government 3 credits

An introduction to the structure, function, and politics of United States government at the state, county, and municipal levels, emphasizing their roles within the federal system.

POL 125(B) World Politics 3 credits

Surveys conflict and cooperation in world politics from several theoretical perspectives. While a variety of historical materials will be used, the focus of the course will be on the challenges and opportunities of the contemporary international community.

POL 126(B) Comparative Politics 3 credits

A study of political systems in several nation states in various parts of the world. Coverage of countries and regions differs depending on the specialties and interests of instructor. Students learn about generalized comparative approaches, political culture, political ideologies and concepts of development, political processes, political institutions, leaders, parties, elections and participation in each state covered.

POL 140(B) Civil Liberties and Civil Rights 3 credits

An examination of the historical development and current legal status of civil liberties and civil rights in the United States. Inquiries include such major constitutional principles as the development of American federalism and the purpose of the separation of powers within the American national government, as well as the tension between majoritarian rule and individual rights, the tension between judicial review and democratic accountability, and the evolving meaning of the Bill of Rights.

POL 150(B) Introductory Topics in Political Science 3 credits

In this course students will survey classic political texts and sample the relevant scholarship of political science to explore a current and/or historical topic in political science. The focus of the course may change each time it is offered.

POL 230(B) Topics in Political Science 3 credits

In this course students will survey the political science literature and use primary source materials to explore a current and/or historical topic in political science. The focus of the course will change each semester. Students will be expected to complete a research project.

Prerequisites: One previous GVT class, ENG 101, and others appropriate to the topic, which will be announced each semester.

PSYCHOLOGY

PSY 110(B) Introduction to Psychology 3 credits

Introduction to the study and principles of behavior. Topics include general principles of scientific investigation; physiological bases of behavior including sensation, perception, learning, emotion, and motivation; development; individual differences; attitudes; and group dynamics.

Prerequisite: Eligibility for ENG 101.

PSY 142(D) Statistics for Psychology 3 credits

An introduction to statistics for students interested in careers in psychology or related fields. Descriptive and inferential statistics are applied to psychological and social problems. Topics include probability theory, descriptive statistics, the binomial and normal distributions, confidence intervals, chi-square tests, t-tests, analysis of variance, correlation, and simple regression. A computer-based statistical package is used to analyze data.

Prerequisites: PSY 110, and MTH 095 or MTH 099 with a grade of C- or better or adequate score on the Mathematics Placement Examination.

PSY 200	Information Literacy in Psychology	1 credit
	An introduction to information literacy concepts specific to the discipline of psychology, including: library research strategies, with an emphasis on database searching; American Psychological Association (APA) editorial style; determining quality and credibility of information sources; and conceptualization and expression of psychological ideas through scientific writing.	
	<i>Prerequisites:</i> PSY 110, PSY 142 <i>Co-requisite:</i> PSY 222	
PSY 202(B)	Ecopsychology	3 credits
	This is a survey of the emerging field of ecopsychology – an integration of ecology and psychology. By drawing upon the science of ecology to re-examine the human psyche as an integral part of nature, ecopsychology attempts to inspire lifestyles that are both ecologically sustainable and psychologically healthy. This course provides an overview of the psychological principles and practices relevant to environmental education and action, while exploring the contributions of ecological thinking and values of the natural world to psychotherapy and personal growth.	
	<i>Prerequisites:</i> PSY 110, SEM 112	
PSY 203(B)	Human Sexuality	3 credits
	Analyzes sexual patterns and attitudes in contemporary American society. Topics include sex roles and models in contemporary society, male and female anatomy and physiology, sexual response, family planning and birth control, birth, and sexual dysfunction.	
	<i>Prerequisite:</i> PSY 110	
PSY 210(B)	Social Psychology	3 credits
	An introduction to the study, principles and findings of Social Psychology. Topics include methods of research; social perception (self-perception, perception of others and perceiving groups); social influence (attitudes and conformity); social relations (attractions, altruism and aggression) and applying social psychology (law, business and health). (Same as SOC 210)	
	<i>Prerequisite:</i> PSY 110 or SOC 110	
PSY 215(B)	Child Psychology	3 credits
	Facts and principles of child development including maturational, emotional, intellectual-cognitive, verbal, and social factors at various ages. Theories regarding personality development and intellectual growth are examined.	
	<i>Prerequisite:</i> PSY 110	
PSY 216(B)	Human Development	3 credits
	A study of human development with emphasis on the broad physical, maturational, and behavioral changes occurring throughout the life span and the	

factors and conditions that influence these changes.

Prerequisite: PSY 110

PSY 217(B)	Abnormal Psychology	3 credits
	Abnormal behavior, including major categories of deviant behavior. Emphasis is on various contemporary approaches to their understanding and treatment.	
	<i>Prerequisite:</i> PSY 110	
PSY 218(B)	Adolescent Psychology	3 credits
	An exploration of adolescent changes including physical, maturational, cognitive, social, and emotional factors. Adolescent development is also viewed from various theoretical points of view. Vocational and educational developments are considered.	
	<i>Prerequisite:</i> PSY 110	
PSY 220(B)	Educational Psychology	3 credits
	A study of the principles of development, learning, and measurement applied to educational situations. Examination of contemporary theories of learning.	
	<i>Prerequisite:</i> PSY 110	
PSY 222(B)	Research Methods in Psychology	3 credits
	An introduction to research methods in psychology or related fields. Covers literature reviews, critical evaluations of articles in professional journals, the design of research studies, and use of a computer-based statistical package to analyze data. Independent research focuses on the procedures involved in conducting studies and writing research reports. Group laboratory exercises are included.	
	<i>Prerequisites:</i> PSY 110 and PSY 142 <i>Co-requisite:</i> PSY 200	
PSY 224 (B)	Psychology of Women	3 credits
	An exploration of some of the psychological issues relevant to women. Theories of female psychology and research findings will be considered, as will biological, social and cultural factors that affect females. Topics to be discussed may include female life span development; gender identity; gender differences in mental health and sexuality; sexism; and violence against women. This course is designed for both female and male students who are interested in learning about women's lives from a bio psychosocial perspective.	
	<i>Prerequisite:</i> PSY 110	

PSY 225(B) Psychology of Men 3 credits

An exploration of what it means to “be a man” and what society expects of males. Current theories of male psychology and masculinity from multicultural, biological, and psychosocial perspectives will be considered. Topics include: gender identity and gender roles; how boys learn to become men; absent fathers and father-hunger; competition, success and work; violence and aggression; sexuality and homophobia; patriarchy, privilege and power; relationships and intimacy; family roles and fatherhood; physical and mental health issues. The course is designed for both men and women who are interested in learning about men, as well as men’s roles in the family, at work, and in society.

Prerequisite: PSY 110

PSY 230(B) Topics in Psychology 3 credits

Surveys the psychological literature and uses primary source materials to explore a current and/or historical topic in psychology. Includes a research project. The focus of the course will change each semester.

Prerequisites: PSY 110, ENG 101 and others appropriate to the topic as announced.

PSY 233(B) Psychology of Aging 3 credits

Examines the psychological development and functioning of the older adult, looking specifically at how the aging process affects the psychological functioning and behavior of the individual. It will address both the biological and behavioral factors of the aging personality and mental functioning with a goal of preparing the student to understand and effectively work with the older adult.

Prerequisite: PSY 110

PSY 240(B) Forensic Psychology 3 credits

An introduction to forensic psychology, the interface of psychology and law. The psychological underpinnings of the legal system, as well as the various roles and responsibilities of psychologists within the legal arena, are examined. Topics include insanity, competency, eyewitness identification, jury selection, capital punishment, violence and risk assessment, and child custody.

Prerequisites: PSY 110

PSY 242(B) Introduction to Interviewing Theory and Practice in Counseling 3 credits

An introduction to instruments, techniques, and theories of counseling. Procedures such as observation, individual appraisal, and case reports are presented in the context of philosophies and issues in counseling.

Prerequisites: PSY 110

PSY 250(B) Psychology of Sport 3 credits

Examines how the major theoretical frameworks in psychology relate to sport. The focus is on how an understanding of psychological concepts such as achievement, motivation, personality theory, aggression, and anxiety can be used to facilitate the athlete’s enjoyment and performance in sport.

Prerequisite: PSY 110

PSY 260(B) Personality 3 credits

This course provides an overview of the major theories of personality and the contributions each has made to our understanding of human behavior.

Prerequisite: PSY 110

PSY 265 (B) Cognitive Psychology 3 credits

An introduction to human cognition. Topics include how cognitive psychologists study human thought processes and research findings in perception, attention, memory, language, problem solving, and intelligence.

Prerequisite: PSY 110

PSY 270 (B) Mind, Brain and Behavior 3 credits

An introduction to the neural foundations for behavior. Topics include how neuroscientists and cognitive neuroscientists study the brain and nervous system, the organization of the brain and nervous system, the major brain circuits and brain functions, and some major brain diseases and disorders.

Prerequisites: PSY 110; an introductory biology course is also recommended.

RADIOLOGIC TECHNOLOGY

RDL 115 Patient Care I 3 credits

Introduces new radiography students to the basic skills required for participation in the clinical experience portions of the program. Topics covered are basic patient care procedures, medical ethics and law, confidentiality, infection control, diagnostic and treatment tubes, medical records, medical liability, medications and venipuncture, medical emergencies, pathophysiology, healthy lifestyle education, and a study of the leading causes of death. Sessions include demonstration and practice of patient care procedures. **A grade of “C+” or better is required in all RDL courses to remain in and graduate from this program.**

Prerequisite: Acceptance into program

Co-requisites: RDL 132 and RDL 122

RDL 122 Radiographic Techniques and Control I 3 credits

Provides an introduction to Radiography including, history, the basic operating principles of X-ray generators, and radiographic imaging equipment.

Topics include film/screen versus digital and computed image production, various imaging receptors, and the prime factors used to produce radiographs. The latter combines lecture with actual experience in the clinical affiliate. Manipulation of general radiograph equipment and accessories takes place in the clinical affiliate during Clinical Education and Lab Experience I, which is concurrent. **A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.**

Prerequisite: MTH 095 or MTH 099 with a C- or better or equivalent placement.

RDL 123 Radiographic Techniques and Control II 3 credits

Radiographic circuits are studied to understand technique control. Quality Assurance standards and procedures are presented. Lab experiments are performed to further understand QA practice. **A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.**

Prerequisite: RDL 122
Co-requisite: RDL 142

RDL 132 Radiographic Positioning and Related Anatomy I 3 credits

Introduces basic radiation protection and positioning concepts. Anatomy of the chest, abdomen, upper extremity, shoulder girdle, and pelvic girdle is correlated with the routine positioning of these areas. The procedures are demonstrated in the classroom and at the facilities, where the student practices these positions during his or her clinical education. **A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.**

Prerequisite: Acceptance into program

RDL 133 Radiographic Positioning and Related Anatomy II 3 credits

Study of the spine, skull, and facial bones.

Prerequisites: RDL 132 and BIO 117
Co-requisites: RDL 142 and BIO 218

RDL 141 Clinical Education and Lab Experience I 2 credits

Under the supervision of staff technologists, students carry out the radiographic procedures covered in classes during the summer and fall semesters. Competency in these procedures is assessed through Competency Testing of previously learned procedures. **A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.**

Prerequisite: Acceptance into program
Co-requisites: RDL 115 and 132
Additional Course Fee: \$15 Malpractice Insurance (The fee is subject to change.)

RDL 142 Clinical Education and Lab Experience II 3 credits

Application of skills in the performance of all examinations thus far covered, and Competency Testing as scheduled. Prerequisite: RDL 141. Co-requisites: RDL 123 and 133; **A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.**

Prerequisite: RDL 141
Co-requisites: RDL 123 and 133
Additional Course Fee: \$15.00 Malpractice Insurance (The fee is subject to change.)

RDL 158 Clinical Internship II 1 credit

Application of skills in the performance of all examinations thus far covered, and Competency Testing as scheduled. **A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.**

Prerequisite: RDL 141
Co-requisites: RDL 123 and 133

RDL 190 Radiologic Instrumentation 3 credits

Concepts of radiation and fundamental principles of physics as applied to diagnostic imaging equipment. Forms of electromagnetic radiation and radiation interactions with matter, principles of operation of X-ray transformers, circuits, rectification, and accessory machine devices will be covered. **A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.**

Prerequisite: RDL 123
Co-requisite: RDL 242

RDL 215 Patient Care II 2 credits

Patient care skills are covered as a continuation of RDL 115. Topics covered include medical law, medical emergencies, health and wellness, venipuncture and patient care procedures. Sessions include demonstration and practice of venipuncture and patient care procedures. **A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.**

Prerequisites: RDL 115 and RDL 142
Co-requisite: RDL 251

RDL 221 Advanced Procedures and Techniques I 3 credits

A review of the anatomy and basic sectional anatomy opens a study of pathology to enhance ability to identify pathological/normal conditions on radiographs. The various imaging modalities in a Radiology Department are studied, including Fluoroscopy, Image intensification, Tomography, and Mammography. Also includes an image evaluation course to assist in determining the quality of radiographs and the diagnostic value of images. **A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.**

Prerequisite: RDL 123
Co-requisite: RDL 241

RDL	233	Special Radiology Studies	3 credits
		Elements of radiographic contrast media are related to specific procedures. Covers special radiographic examinations including examinations of the gastrointestinal system, urinary system, circulatory system, and nervous system. Invasive and non-invasive procedures are also covered. A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.	
		<i>Prerequisites:</i> RDL 133 and BIO 118	
		<i>Co-requisite:</i> RDL 241	
RDL	234	Advanced Procedures and Techniques II	3 credits
		Covers the more sophisticated equipment and imaging modalities found in most radiology departments; e.g., CT scanning, MRI, and Digital Radiography/Fluoroscopy. The subject of Radiobiology is included to expand understanding of the effects of radiation on the human body and the necessity of radiation protection measures. A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.	
		<i>Prerequisite:</i> RDL 221	
		<i>Co-requisite:</i> RDL 242	
RDL	241	Clinical Education and Lab Experience III	3 credits
		With less direct supervision, students carry out some of the more specialized radiographic procedures and operate equipment used for these procedures. Rotations to various clinical areas continue. Competency testing is conducted. A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.	
		<i>Prerequisites:</i> RDL 251 and BIO 118	
		<i>Co-requisites:</i> RDL 221, 142 and 233	
RDL	242	Clinical Education and Lab Experience IV	3 credits
		Practice in the procedures and studies covered in previous Clinical Education and Internship experiences are continued. Indirect supervision of the student is allowed. Competency Testing for all studies of the skull is carried out. Students who receive an incomplete in the course will have six weeks following spring semester to complete clinical assignments. A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.	
		<i>Prerequisites:</i> RDL 241 and 158	
		<i>Co-requisites:</i> RDL 190 and 234	
RDL	251	Clinical Internship II	4 credits
		This experience will be full-time, five days a week in the clinical affiliate. Includes opportunities to synthesize and put into practice all previously learned information and procedures. The extended period of time allows refurbishing of skills, improves speed, and increases efficiency in carrying out routine procedures. Competence Testing continues. A grade of "C+" or better is required in all RDL courses to remain in and graduate from this program.	
		<i>Prerequisites:</i> RDL 142	

RUSSIAN

RUS	101	Elementary Russian I	3 credits
		Elementary Russian I will introduce you to the Russian language and culture. The development of basic conversational skills in Russian is emphasized, supplemented by elements of grammar and simple readings. The course is designed for those who have never studied Russian before or have had one or two years of high school Russian.	
RUS	102	Elementary Russian II	3 credits
		Elementary Russian I will introduce you to the Russian language and culture. The development of basic conversational skills in Russian is emphasized, supplemented by elements of grammar and simple readings. The course is designed for those who have never studied Russian before or have had one or two years of high school Russian.	

SCIENCE AND TECHNOLOGY

SEM	116(D)	Astrobiology: Creation, Evolution and Life	4 credits
		Bring your willingness to ponder some big questions as we explore the rich and awe-inspiring story of the origin and evolution of energy, matter and life as it is unfolding. What is the fascinating connection between life and the stars? Is there other life in the universe? How is the universe changing, and what will the fate of the Earth be? This course looks at new findings about the 15 billion year history of the cosmos from the diverse perspectives of astronomy and biology in classroom and laboratory settings to answer these questions and more. (Same as AST 116 and BIO 116)	
SEM	130(D)	Topics in Science	4 credits
		An exploratory course in natural science. May include contemporary topics involving exciting new developments in botany, chemistry, genetics, geology, human biology, oceanography, physics, and zoology. Issues such as radioactivity and the disposal of nuclear waste, fossil fuels and nuclear energy, gene technologies, and human population growth will be discussed from a scientific perspective.	
		<i>3 class hours, and 3 laboratory hours</i>	
SEM	280/ 281	Cooperative Education in Science, Engineering, and Mathematics I and II	3 credits each
		Cooperative field experience that provides the opportunity to exercise and expand hands-on experience with local area industries. Includes administrative and other aspects of science work within the community. A minimum of twenty hours per week cooperative experience, plus weekly, 50-minute seminars to discuss field work.	

Prerequisites: 2 semesters of course work in an SEM academic program (dependent on particular program) and permission of co-op coordinator.

SOCIOLOGY

- SOC 110(B) Introduction to Sociology 3 credits**
- "A scientific examination of human social phenomena. Major topics include interaction, statuses and roles, groups, social institutions, culture, socialization, social control, conforming and deviant behavior, collective behavior, social inequality, demography, social change, urbanism, industrialism and globalization.
- Prerequisite:* ENG 101 eligibility
- SOC 130(B) Intimate Relationships, Marriage and Family 3 credits**
- Courtship, marriage, and other relationships among husband, wife, and children. Social, economic, and emotional problems in marriage and family life are analyzed. Also surveyed are the social forces operating in mate selection and the social dynamics, structures, functions, and changes of marriage and the family.
- SOC 150(B) Topics in Sociology 3 credits**
- In this course students will survey classic sociological theorists and concepts. Current and/or historical topics are examined through the lenses of relevant scholarship in sociology. The focus of this course may change each time it is offered.
- SOC 204(B) Sociology of Death and Dying 3 credits**
- Information about and problems of death and dying from a sociological perspective. Major topics include the demography of death; cross cultural, subcultural, and religious views of death and dying; sociological analysis of funerals; aging and death; and the dying patient and caring institutions.
- Prerequisite:* SOC 110
- SOC 208(B) Substance Abuse 3 credits**
/HSV
- This courses introduces concepts relevant to the diagnosis and treatment of substance abuse, including the disease concept; the effect of alcohol and other drugs on the body; medical complications; the effect of substance abuse problems on the family and others; and special issues related to populations such as adolescents, individuals at risk for suicide, women, the elderly, and individuals with a dual diagnosis. Same as HSV 208.
- Prerequisites:* PSY 110 or SOC 110

- SOC 210(B) Social Psychology 3 credits**
- An introduction to the study, principles and findings of Social Psychology. Topics include methods of research; social perception (self-perception, perception of others and perceiving groups); social influence (attitudes and conformity); social relations (attractions, altruism and aggression) and applying social psychology (law, business and health). (Same as PSY 210).
- Prerequisite:* PSY 110 or SOC 110
- SOC 213(B) Urban Sociology 3 credits**
- A sociological examination of urban phenomena around the world with special emphasis upon urban conditions in the United States. Particular attention is given to the urban revolution, the nature of the city, the history of urban developments, spatial and physical aspects of the urban environment, urban social structure, urban social institutions, and urban social problems.
- Prerequisite:* SOC 110
- SOC 214(B) Social Problems 3 credits**
- A sociological examination of the nature, causes and consequences of, and potential solutions for, social problems. Attention will be focused on problems of deviant behavior, structural problems, problems of inequality, institutional problems, and global survival problems.
- Prerequisite:* SOC 110
- SOC 215(B) Sociology of Sex and Gender 3 credits**
- An introduction to sociological perspectives on the complex historical processes that contribute to the social construction of gender. This course examines different theories generated to explain the system of inequalities in the United States. Particular attention will be given to the intersection of gender, sexuality, class ethnicity, and race. Social change and the place of feminism in that change will be a central focus of the course.
- Prerequisite:* SOC 110
- SOC 220(B) Race and Ethnicity 3 credits**
- The relationships among different racial and ethnic groups and the dominant culture in the United States from a socio-historical perspective. Particular attention will be given to such concepts as dominant-minority group relations, racism, discrimination, ethnicity, immigration, assimilation, and pluralism. Some of the groups analyzed are African-Americans, Hispanic-Americans, Jewish-Americans, Asian-Americans, and Native Americans.
- Prerequisite:* SOC 110

SOC 240(B) Sociology of Sport 3 credits

An in-depth sociological analysis of sport. Examines the nature of sport, people's sport-related experiences, sport as a social institution in modern societies, and the articulation of sport with other social institutions. Special emphasis will be given to organized, competitive, and professional sport in the United States.

Prerequisite: SOC 110

SOC 250(B) Topics in Sociology 3 credits

In this course students will survey the sociological literature and use primary source materials to explore a current and/or historic topic in sociology. The focus of the course may change each semester. Students will be expected to complete a research project.

Prerequisites: SOC 110 and additional prerequisites appropriate to the topic when the course is announced

**SOC 276/
277/
278 Internship in Sociology 1-3 credits**

A project designed by an interested student and sponsoring faculty member and approved by a Division committee. Off-campus work familiarizes the student with concrete and practical examples of principles studied in class or through reading or research. Student interns keep logs of their activities, meet regularly with their faculty sponsors, and write papers.

Prerequisites: Two SOC courses and permission of instructor.

SPANISH

SPA 100 Conversational Spanish 1 credits

Attention is given to speaking and understanding the contemporary colloquial idiom of the native speaker. The course is especially concerned with giving police and other interested groups the ability to express themselves tersely in matters of interest to them.

Note: To take SPA 101 for credit, a student shall have successfully completed no more than two High School years of Spanish study. This policy may be waived for students who took their High School language course three or more years before they sign up for SPA 101.

SPA 101 Elementary Spanish I 2 credits

An introduction to the Spanish language and culture, this course is designed for students without previous study of the language. The course includes oral practice of dialogues, vocabulary and basic grammar to help students communicate in Spanish at a basic level. Classes will be conduct-

ed mainly in Spanish to enable students to acquire listening and speaking skills. Grammatical content includes regular and irregular verbs in the present tense, ser vs. estar, agreement of nouns and adjectives, numbers up to 100, weather expressions, telling time. Communicative goals include introductions and greetings, talking about your classes, your family and everyday activities, describing people and things, making plans and invitations and talking about the weather.

Note: To take SPA 101 for credit, a student shall have successfully completed no more than two High School years of Spanish study. This policy may be waived for students who took their High School language course three or more years before they sign up for SPA 101.

SPA 102 Elementary Spanish II 3 credits

This course builds on the knowledge and skills developed in Elementary Spanish 1. It is designed for students who completed two or three years of Spanish in high school or one semester of college Spanish. Classes are conducted in Spanish to develop students listening and speaking skills. Grammatical content includes object pronouns, verbs in the past tenses (preterit and imperfect), reflexive verbs, commands. Communicative goals include shopping for clothes and ordering at a restaurant, describing a house or apartment, describing routines and household chores and talking about simple past events.

SPA 105 Intensive Elementary Spanish 6 credits

Covers the course content of SPA 101 and SPA 102 (Elementary Spanish) in one semester.

SPA 106 Topics in Spanish for the Workplace 3 credits

Prepares non-Spanish speakers for interaction with Spanish speakers in the workplace. Students learn basic Spanish phrases, expressions, and questions necessary to carry out specific procedures necessary to their field of work. Oral performance is stressed over reading and writing. The focus will vary each semester and will cover one of the following: Spanish for Firefighters, Dental Staff, Nursing, School Administrators, Bank Tellers, Business professionals, Child Care Facilities, Restaurant Staff, Hotel Staff, Secretaries and Receptionists. Other occupations may be covered as needed.

Prerequisites: One semester of college level Spanish or one year of high school Spanish

SPA 107 Spanish for Law Enforcement 3 credits

Designed to prepare students in the Criminal Justice program to perform basic duties in the field in Spanish. Students will not become fluent speakers of Spanish; however, upon completion of the course, they should be able to use commands and yes/no questions in a variety of work-related situations.

SPA 111 Spanish for Health Related Careers I 3 credits

Spanish for Health Related Careers I is an elementary level course designed for people currently employed in the medical field or for those students planning a career in a health related field. This course would be beneficial for anyone in the field of medicine, nursing, pharmacology, radiographic technology, physical therapy, dentistry as well as those working as receptionists or office managers in a medical facility

This course is not intended for native speakers who are already fluent in the language. Native speakers who are enrolled in the Foundations of Health program should take Spanish 112, Spanish for Health Related Careers II.

Prerequisite: One year of high school Spanish or one semester of college Spanish, taken within the last three years.

SPA 112 Spanish for Health Related Careers II 3 credits

This course is the second semester of an elementary level course designed for people currently employed in the medical field or for those students planning a career in a health related field. This course would be beneficial for anyone in the field of medicine, nursing, pharmacology, radiographic technology, physical therapy, dentistry, as well as for those working as receptionists or office managers in a medical facility.

Prerequisite: SPA 111 or Native Speaker

SPA 120 Advanced Conversational Spanish 3 credits

This course is a continuation of Conversational Spanish, with more emphasis on two of the basic skills necessary for the mastery of a foreign language: listening and speaking. Special attention is given to pronunciation and conversational patterns. Contemporary themes are emphasized. Intense oral drills and practical vocabulary. Focus will be given to Spanish dialect from the Caribbean, Central and South America.

Prerequisite: SPA 100

SPA 201(C) Intermediate Spanish I 3 credits

Starting with a solid review of first-year contents, this course introduces more advanced vocabulary and complex grammatical structures. It is designed for students who have had three or four years of High School Spanish or who have completed the first year of college Spanish. Grammatical content includes reinforcement of present and past tenses, double object pronouns, formal and informal commands, the present subjunctive with verbs of will and influence, emotion and doubt, and the perfect tenses (e.g. he hablado= I have spoken). Communicative goals include telling a basic story in the past, expressing your beliefs and opinions about issues, giving and receiving directions and giving advice to others.

SPA 202(C) Intermediate Spanish II 3 credits

This course builds on the knowledge and skills developed in Intermediate Spanish 1. It is designed for students who have completed four or five years High School Spanish or who have completed one semester of intermediate college level Spanish. This course reinforces content covered in the first three semesters and introduces students to advanced grammar and vocabulary. Grammatical content includes present subjunctive in adverbial clauses, the present perfect subjunctive, the future tense, the past subjunctive, the conditional tense, the conditional perfect, Si clauses and a summary of the uses of the subjunctive. Communicative goals include talking about your future plans, talking about work, expressing agreement and disagreement, expressing wishes and emotions in the past, talking about what you would do and discussing current events and issues.

SPA 203(C) Spanish for Native Speakers 3 credits

Skill development to prepare native Spanish speakers for composition through the study of formal Spanish as well as regional variances. Emphasis on efficient and contemporary Spanish usage. Taught in Spanish.

Prerequisite: Fluency in spoken Spanish

SPA 204(C) Spanish for Native Speakers II 3 credits

Prepares native Spanish speakers for composition through the study of formal written Spanish. Emphasis will be placed on efficient and contemporary Spanish usage. The course will be taught in Spanish, although comparisons between English and Spanish will be encouraged in order to take full advantage of students' bilingual background.

Prerequisite: SPA 203

SPA 205(C) Advanced Spanish Conversation 3 credits

Develops listening and speaking skills in diverse social settings. This course teaches practical strategies for effective communication in Spanish through careful analysis of conversations by native Spanish speakers. Emphasis is on the study and practice of idiomatic vocabulary for social interaction. Students are expected to use Spanish exclusively and to apply grammar concepts learned in their previous study of the language. Students will be evaluated through oral presentations, dialogue improvisations and debates. Suitable for students with intermediate knowledge of Spanish grammar and vocabulary. This course is NOT appropriate for native Spanish speakers who are already fluent in the language.

Prerequisite: SPA 202 previously or concurrently, or four years of high school Spanish.

SPA 206 Advanced Spanish Composition 3 credits

Develops reading and writing skills through the study of the major expository modes: description, narration, exposition and argumentation. Emphasis is on effective written communication through development of writing tools such as control of grammar, range of vocabulary and techniques for organizing information. This course is appropriate for advanced language learners as well as for Spanish native speakers who need to improve their written Spanish.

Prerequisite: SPA 202 or four years of high school Spanish or SPA 203.

SPA 210(C) Topics in Spanish 3 credits

An examination, in English and/or Spanish, of Spanish-speaking cultures that are of special interest to the Humanities or Hospitality and Tourism student. In different semesters this course will focus on European (Spanish) or non-European (North American, Central American, South American, and Caribbean) Hispanics cultures. Each semester, specific geographical areas will be explored to reveal the rich cultural diversity of the Spanish-speaking world. Aspects to be studied include history, symbols, human and natural resources, family and social structure, religion and philosophy, education, fine arts and cultural achievements, economics and industry, politics and government, science, transportation, sports and games, national and regional cuisine, and language. Examples from literature, music, art, and film are used to illustrate topics under discussion.

Prerequisite: ENG 101.

SPA 211 (C) Survey of Hispanic Literature I 3 credits

Reading and discussion of literary texts from the twelfth century to the present. Fables, short stories, poems, letters, and complete and selected portions of plays and novels will be used. Conducted in Spanish. Prerequisite: SPA 202 or equivalent.

Prerequisite: SPA 202 or equivalent

SPA 212 (C) Survey of Hispanic Literature II 3 credits

Reading and discussion of literary texts from the twelfth century to the present. Fables, short stories, poems, letters, and complete and selected portions of plays and novels will be used. Conducted in Spanish.

Prerequisite: SPA 202 or equivalent

SPA 214(C) The Spanish Short Story 3 credits

This intermediate level course will expand students' understanding of the Spanish language and culture through the reading of short stories by major Latin American and Spanish authors. Taught in Spanish, this course will develop oral skills through class discussions, debates and brief oral presentations. Students will be asked to write personal and creative responses to the stories in order to improve their writing skills. The readings will also provide an opportunity for vocabulary building activities and the discussion of fine grammar points.

Prerequisite: SPA 202 previously or concurrently, or 4 or more years of high school Spanish.

SPORT MANAGEMENT

SPO 110 Introduction to Sport Management 3 credits

Surveys the structure of the sport industry and reviews basic trends and issues in sport, including labor organization, management, marketing, economics, accounting, finance and law.

SPO 211 Sport Law 3 credits

A study of the substantive law concerning amateur and professional sports. Includes amateur athletics, discrimination based on gender, contract law, tort law, drug testing, trademark law, and antitrust law.

SOCIAL SCIENCE

SSN 102 Service Learning Practicum 3 credits

This practicum offers students an opportunity to more fully engage in the course in which they are enrolled. In addition to having a hands on learning experience related to the objectives of their course, the student learns the theory behind civic engagement and community service learning. Students also learn about community development and effective ways for engaging in the community. Over the course of the semester students have time in class to reflect on what they are learning at their community based learning work site and how it directly relates to the objectives of the class. Students are required to work, on average 25 hours over the course of the semester at a non profit organization that offers work opportunities that relate directly to the objectives of the class.

SSN 103 Children and Families in the Social Environment 3 credits

An examination of the child's and family's place in the social environment, historically and cross-culturally. Especially appropriate for individuals who work, plan to work, or volunteer in schools, clinics, health care facilities or social service agencies. Emphasis will be placed on the interplay between socio-cultural structure and interpersonal relationships, considering such factors as race, ethnicity, gender, class and age.

SSN 104 Soul of a Citizen: Topics in Community Service Learning 3 credits

This course offers students an opportunity to study and engage in Community Service Learning structured around a specific topic or theme that may change each time the course is offered. Students will begin by exploring such important questions as, what is Community Service Learning? How does Community Service Learning work as a pedagogy? What defines a Community? How is it created? How is it sustained? What is power? What is democracy? What are effective strategies of engagement in the community? In addition, students will intensively study the specific topics selected (e.g.

homeless) and then design and implement a community service learning project based on what they have learned. The semester will culminate with students reflecting upon the evolution of their work and reporting on that evolution in written and/or oral format.

Prerequisite: ENG 101 eligibility

SSN 109(B) Your First Year Experience: Strategies for Success 1 credits

This course is designed to introduce students to the nuances of college life. It is especially intended to help students make a successful transition to college. Students will learn about the academic expectations of the college environment, enhance and refine their study-skills and goal-setting strategies, learn how to access support services, and apply what they have learned to identify and clearly articulate academic, career, and personal goals. This course offers students an opportunity to develop academic skills that will enhance core competencies including but not limited to: critical thinking, information literacy, effective communication, and knowledge of diversity. An active learning approach that empowers students to engage in the learning process will be emphasized within a structured and supportive environment. Students will have the opportunity to develop life-long learning skills that will foster self-confidence, encourage active participation in civic life, and promote the attainment of academic and career goals.

SSN 112(B) Resilience: Succeeding in College, Succeeding in Life 3 credits

resilience [ri-zil-yuh-ns] ability to recover steadily from illness, depression, adversity, or the like; buoyancy. ;What allows some people to overcome adversity while others continue to struggle? How does succeeding in college relate to succeeding in life? Using a strengths-based framework, this course will explore the connections among resilience, college success and success in life. Topics will include personality and learning styles, character strengths, information literacy, stress management and effective study strategies.

SSN 120(B) Conflict Resolution and Mediation 3 credits

Critically examines the cycle of conflict in western society and provides an overview of traditional and alternative strategies of conflict resolution, including mediation. The complexities of power imbalances and cultural differences are explored within the frameworks of personal and structural conflict. Conflict is viewed as an opportunity for growth and empowerment, rather than merely as a problem to be solved. Students learn conflict resolution and mediation skills that are transferable to work, home and school.

SSN 130 Insects and Society 3 credit

An overview of how humans and insects interact with one another. Emphasis will be placed on historical and cultural impacts of insects on the human race. Topics may include: basic insect biology, cultural entomology and human use, insects and history, insects as disease vectors, impact and suppression of pests, and forensic entomology.

SSN 200 Topics in Social Science 1 credit

A research problem of special interest to the student and/or a critical review of literature. Initiated by the student by petition to a faculty member in the subject within which the work will be done.

Prerequisite: Permission of the instructor

SSN 230(B) Interdisciplinary Topics in Social Science 3 credits

Students will survey the research literature and use primary source materials to explore a current and/or historic topic that crosses the boundaries of two or more disciplines in the social sciences. The focus of the course may change each semester it is offered. Students will be expected to complete a research topic.

Prerequisite: Will vary according to topic; topic will be announced

SSN 250 Mini-Course in Social Science 1 credit

Instructor initiated. Involves a critical review of literature, research, and studies relating to a relatively restricted topic.

SSN 280/281 Cooperative Education in the Social Sciences I, II 3 credits each

Expansion of classroom knowledge in social sciences through supervised field experience. Fifteen to twenty hours per week of work experience, plus weekly, 50-minute seminars to discuss field work.

Prerequisites: Economics and Government: 2 courses in the field; Psychology and Sociology: 2 courses in the field or in the two fields; Criminal Justice: CRJ 100, CRJ 111, SOC 110, and PSY 110

SUSTAINABILITY

SUS 101(D) Introduction to Sustainability Studies 4 credits

We are faced with many critical problems in the 21st century-species extinction, diminishing energy resources, increasing population, and human civilizations' limited vision of alternatives. Whether humans can learn to manage their life styles in a sustainable manner will impact the long-term survival of all the species on this planet. Students will explore relevant environmental issues, their possible solutions, and the interconnectedness of all lives on Earth. Issues such as energy use, sustaining resource levels, preservation of biodiversity, and community sustainability will be discussed from a scientific perspective. Seminars, laboratory experiments, community-based learning and field trips are all integral components of the course.

SUS 102(D) Introduction to Clean Energy Resources 3 credits

This course provides an overview of renewable energy resources including solar, wind, geothermal, biomass, tidal, wave, hydropower, and hydrogen. Students will learn basic principles of each technology and its application for both new and existing buildings, and for transportation. Students will investigate the potential of each technology to help solve current and future energy demands society faces. Topics covered will include governmental regulations, analysis of renewable energy systems, calculation of savings, and financing options available. In the lab students will have the opportunity to have hands-on experience with a variety of clean energy techniques.

Prerequisite: ENG 101 eligible or ESL 153.

SUS 103 (D) Energy Efficiency and Conservation Methods 4 credit

This course provides the students with the opportunity to understand and explore energy efficiency/conservation strategies. In lab, students will learn to demonstrate the appropriate usage of energy monitoring and measuring equipment commonly used by energy specialists and energy auditors. In the field, energy consuming facilities, both residential and commercial, will be analyzed by students for energy efficiency. Students will learn to calculate energy savings and environmental impacts in order to assess the optimum energy consumption strategies.

Prerequisite: SUS 102

SUS 104 (D) Introduction to Solar Energy 4 credit

This course provides a comprehensive training in the application of solar technology. Students will gain an understanding of the solar energy resource and its adaptive application in a variety of strategies including passive solar, active solar thermal and photovoltaics. In addition, students will practice designing systems on site for a given location and explore the potential of a solar-based economy. The laboratory will train students to conduct solar energy site assessments, install solar thermal systems and promote the use of solar energy in residential, commercial and municipal facilities.

Prerequisite: SUS 103

SUS 105 (D) Introduction to Wind Energy 4 credit

This course provides a comprehensive training in the application of wind power technology. Students will gain an understanding of wind power as a sustainable form of energy and learn the fundamental science behind harnessing wind and converting it to electrical energy. We will look at the process for siting, developing, constructing, operating and maintaining wind energy projects of different scales, from residential and small commercial to municipal and utility scale.

Prerequisite: SUS 103 scales, from residential and small commercial to municipal and utility scale.

SUS 106 (D) Introduction to Geothermal Energy 1 credit

This course provides a comprehensive training in the application of geothermal technology. Students will gain an understanding of geothermal resources as a sustainable form of energy and learn the fundamental science behind the application of this resource. We will look at the process for siting, developing, constructing, operating and maintaining geothermal projects of different scales including residential and small commercial.

Prerequisites: SUS 102 and SUS103.

SUS 109 Renewable Energy Technology Internship 3 credit

This supervised field-training program will further the hands-on skills students have acquired in SUS 104: Introduction to Solar Energy and SUS 105: Introduction to Wind Energy. They will work with an appropriate energy-resource specific industry partner and gain field experience in the performance of tasks appropriate for each of the renewable energy technology certificate programs. Students will be expected to work 225 hours with the industry partner.

Prerequisite: SUS 104 or SUS 105

SUS 110 Green Careers Exploration 1 credit

Explores the diverse array of expanding green career opportunities and the impact of sustainability on existing occupations and industries. Students identify local career opportunities while engaging community members and organizations. Students develop important work-finding skills such as resume creation, interviewing and networking. (Field trips required.)

SUS 112 World Food Habits: A Biological and Environmental Perspective to Global Food Systems 3 credit

Scientific and environmental issues related to food sources and food technology in Americas. Understanding Origins of foods in Americas, Africa, Europe and Asia. Ethnic origins of foods in multicultural America, global environmental factors-global warming and ozone on food, energy and biological sustainability, food safety, food preservation, food additives, food processing, food biotechnology, fermented foods, foods from cereals and green revolution, protein foods and diversity, world hunger, nutrition and health relevance of world foods, diet in America past, present and future. United Nation's role in World Food security, role of traditional food systems in food security and combating chronic and infectious diseases. Special emphasis will be placed on Food Biology such as Fermented Foods, Biological and Biochemical Basis for Sustainability, Foods for Better Health and Rationale integration of Food Biotechnology and their impact on World Food Habits. Special topics will include understanding of tea both for his health benefits, global political turmoil and discord and critical impact on global economic systems past, present and future. Diet and Aging based on understanding of traditional food systems and food diversity.

THEATER

THE 100(C) Introduction to Theater 3 credits

This introductory course is designed to enhance the enjoyment and understanding of a theatrical experience. Students will explore the nature of theater as a unique artistic form of expression and recognize the creative power of theater in a society. The class will examine a variety of historical and cultural perspectives through reading and discussing different plays from various time periods, and gain insight into the role of the playwright, the actor, the director, the designer, and the audience while investigating the major elements of dramatic performance. Students will study fundamental principles and theories of drama from: Greek, Renaissance, Modern and Contemporary theater and develop criteria for critically evaluating and responding to a theatrical experience. The course content will include: play-reading and analysis, active exploration of course material, lecture and discussion. Students in this course will be required to attend a live theatrical performance.

THE 110(C) Fundamentals of Acting 3 credits

Introduces acting fundamentals, which include improvisational techniques, actor relationships to the audience, voice and diction work, script analysis, and character development. Exercises to increase self-confidence and to enhance communication skills are stressed. There will be opportunities to prepare and rehearse scenework in preparation for furthering performance skills.

THE 120 Movement for Actors 3 credits

The body is an actor's instrument. In performance, the actor's body - alignment, shape, senses, impulse - tells a story. This course is designed to ground participants in the total expressive ability of the actor's body, and the physical presence of the performer on stage. As an ensemble, the class trains toward integrating clear physical gesture, stage combat technique, and stylized movement composition into performance. Working with a variety of physical disciplines and movement vocabularies taught by the instructor, the students collaboratively improvise, structure, record and rehearse several choreographed group movement sequences throughout the semester, which are presented, discussed, and critiqued in class.

THE 124(C) Stagecraft I 4 credits

This class focuses on the conceptual and practical application of scenic construction, lighting, and stage props in the theater. Stagecraft 1 will familiarize the student with the equipment, hardware, safety, and techniques common in each area through lecture and practical experience. Students will participate in laboratories that will apply the concepts learned in class to the construction of the scenery, props and lighting for the HCC fall mainstage production. Students will engage in analysis and interpretation of dramatic writing and survey major historical events associated with technical theater.

THE 125(C) Stagecraft II 4 credits

This course builds upon the concepts and practical applications gained in Stagecraft I (THE 124), including scenic construction, lighting, and stage props. Students will explore the design aspects of scenery, lighting and sound as well as the fundamentals of stage management. Students will examine various stagecraft theories and practices as they work to build the technical requirements of the HCC spring mainstage production.

Prerequisite: THE 124 or permission of the instructor

THE/MUS

181(C) Musical Theater Workshop I 4 credits

Performance-oriented workshop experience that develops vocal performance skills, with some attention to stage movement and acting skills, through the rehearsal and presentation of songs and scenes from selected musical theater works.

Prerequisite: Previous auditioned placement into College Chorale (MUS 161.01) or Chamber Vocal Ensemble (MUS 121.05 or MUS 127.05), or permission of the instructor. New students will be auditioned the first day of class, and should be prepared for a possible schedule adjustment during the add/drop period, if necessary. (Same as MUS 181)

THE/MUS 182(C) Musical Theater Workshop II 4 credits

Performance-oriented workshop experience that develops vocal performance skills, with some attention to stage movement and acting skills, through the rehearsal and presentation of songs and scenes from selected musical theater works.

Prerequisite: MUS 181 or THE 181 (same as MUS 182)

THE 210 Acting II 3 credits

This course will increase your ability to live truthfully under imaginary circumstances on stage and intensify the training you received in Fundamentals of Acting while exploring the techniques developed by Stanislavsky, Uta Hagen, Stella Adler, Sanford Meisner, and Lee Strasberg. Actors will engage in scene study and monologue development throughout the course as well as learn principles of auditioning and scene selection.

Prerequisite: THE 110

THE	212(C)	Theater History: Classical Theater	3 credits
		A history of the theater from its origins in ancient Greece to the neoclassical theater of France and England in the 17th century.	
THE	213(C)	Theater History: Modern Drama	3 credits
		A history of the modern theater from the Romantic Movement to contemporary postmodern theater.	
THE	218	Voice and Diction	3 credits
		This basic voice and diction class is designed to help students improve their speaking voice both onstage and in professions such as teaching, management, marketing, public relations, and law just to name a few. In this course, students will gain an understanding of vocal health and physical demands placed on the vocal apparatus. Students will engage in a step-by-step approach to gaining a more articulate, resilient and dynamic voice. Elements of the International Phonetic Alphabet and basic dialect (accent) training will be included. No previous theater experience is required.	
THE	227(C)	Creative Writing for the Theater	3 credits
		Creative writing exercises and class activities will help students develop their own projects, such as writing short plays, screenplays, or monologues, or scripting and shooting a short movie. Students will learn about the elements of drama by analyzing the structure and dialogue of a few selected plays, and by actively exploring these ideas in their own writing. Student work will be considered for production. (Same as ENG 227)	
		<i>Prerequisite:</i> ENG 102	
THE	235(C)	Topics in Communication, Media and Theater Arts	3 credits
		Each semester the course focuses on a different area of literature, theory, or performance, or a combination in Communication, Media, or Theater Arts. A specific era, a particular practitioner, a genre, or an <i>l'èismè</i> may be focused. A detailed study is made of each special topic with particular emphasis on literary, and/or performance values. Same as COM 235.	
		<i>Prerequisite:</i> ENG 102, previously or concurrently	
THE	237(C)	Shakespeare	3 credits
		A creative analysis of Shakespeare's plays with some consideration given to the sonnets. A concern for the "man and his times" will supplement the analysis of his comedies, histories, and tragedies. (Same as ENG 237)	
		<i>Prerequisite:</i> ENG 102	
THE	240	Playscript Analysis	3 credits
		This course is designed to introduce students to analysis techniques that are	

utilized by actors, directors, designers, and stage managers as they produce a play. The core focus of the class is to analyze a variety of scripts and cultivate a prompt book that can be used to guide the production of a dramatic work, emphasis will be placed on the effective use of action analysis, script scoring and dramaturgy in order to best realize a playwrights vision for the stage.

Prerequisite: ENG 101

VETERINARY SCIENCE

VET 133 (D) Anatomy & Physiology of Domestic Animals I 4 credits

Covers the anatomy and physiology of the animal cell and various mammalian tissues, as well as the gross and microscopic anatomy and physiology of the following vertebrate types: equine, bovine, ovine, porcine, canine, and feline. The systems to be covered are: integumentary, skeletal, muscular, nervous, and endocrine, as well as cellular aspects of metabolism and the digestive system. Provides sufficient knowledge of normal physiologic processes to understand the responses to drugs and disease processes discussed later in the veterinary science curriculum.

Dissection is required. Restricted to Veterinary Technician and Pre-Veterinary and Animal Science students.

Prerequisite: Eligibility for MTH 095 and a grade of C or better in BIO 100 or a passing grade on the challenge exam.

VET 134 Anatomy & Physiology of Domestic Animals II 4 credits

Continuation of Anatomy & Physiology of Domestic Animals I (BIO 133). The digestive, respiratory, circulatory, urinary, and reproductive systems are covered.

Dissection is required. Restricted to Veterinary Technician and Pre-Veterinary and Animal Science students.

Prerequisite: A grade of C or better in VET 133

VET 140 Principles of Animal Health Care 1 credit

A prerequisite to all-clinical laboratory or veterinary science courses. Introduces routine nursing procedures such as correct animal restraint; routes of administration of medications; and the temperature, pulse, and respiration of both large and small animals. Presents the history and scope of the veterinary profession. Discusses breeds of small and large animals. A primary objective is to familiarize students with nursing procedures and the collection of samples in order to eliminate wasted time in later courses.

Restricted to Veterinary Technician students.

VET 145 Veterinary Medical Terminology 1 credit

Introduces basic medical terminology. Concentration will be on terms commonly used in veterinary medicine. This will facilitate and enhance students' comprehension of the material presented in subsequent medically oriented courses.

VET	147	Veterinary Practice Management	3 credits
		Preparation for the business aspects of working in a veterinary practice. Provides information about veterinary practice ethics, communication skills, marketing, accounting systems, veterinary practice computer systems, and the laws of the veterinary profession. Restricted to Veterinary Technician students.	
		<i>Restricted to Veterinary Technician students.</i>	
		<i>Prerequisite: VET 282</i>	
VET	153	Animal Diseases	4 credits
		A study of the cause, transmission, diagnosis, prevention, and control of diseases of domestic animals from the following groups: porcine, ovine, canine, feline, equine, caprine, bovine, and avian. The public health significance of these diseases and the function of the veterinary profession in controlling and monitoring them are covered.	
		<i>Restricted to Veterinary and Animal Science students.</i>	
		<i>Prerequisites: A grade C or better in VET 133 and VET 134; or BIO 103 or BIO 100, or BIO 107 and BIO 112.</i>	
VET	160	Veterinary Laboratory Procedures I	4 credits
		The course will cover representative species of the helminths, arthropods, protozoa and bacteria which are a veterinary importance to the domestic animals. Morphology, life cycles, pathology, clinical signs, treatment, prevention and control of disease, and zoonotic importance will be discussed. The laboratory sessions will consist of culture and staining techniques, fecal exams, hematology, examination of fresh material, prepared slides and preserved specimens.	
		<i>Prerequisites: C or better in VET 133, VET 140, VET 145</i>	
		<i>Pre-/Co-Requisite: VET 134</i>	
VET	165	Veterinary Laboratory Procedures II	4 credits
		Covers the common laboratory procedures performed routinely by technicians in veterinary health care facilities. The need for and basis of the procedures will be discussed, but emphasis will be placed on clinical proficiency during laboratory periods.	
		<i>Walking on field trips and working with large animals required. Current rabies and tetanus vaccinations required. Restricted to Veterinary Technician students.</i>	
		<i>Prerequisites: A grade of C or better in VET 134, VET 140, VET 145, and VET 160</i>	
VET	202	Animal Science Seminar	1 credit
		Lecture and discussions by guest speakers on current literature and special topics of interest in the veterinary and animal sciences.	
		<i>Prerequisites: VET 165 and VET 247</i>	

VET	247	Animal Nursing I	4 credits
		Primarily concerned with non-surgical animal nursing practices. Designed to familiarize the student with the principles of good nursing. Emphasis is placed on management of simple fractures and wounds, fluid therapy, and various types of emergency procedures. The purpose of the course is to enable the student to deal with these procedures as they are encountered in most veterinary practices.	
		<i>Walking on field trips and working with large animals required. Current rabies and tetanus vaccinations required. Restricted to Veterinary Technician students.</i>	
		<i>Prerequisites: VET 133, VET 134, VET 140, VET 145, VET 160 with a C or better and MTH 130. Pre-/Co-Requisite: VET 165; Additional Course Fee: \$15 Malpractice Insurance (The fee is subject to change.)</i>	
VET	248	Animal Nursing II	4 credits
		This course provides the theoretical knowledge and practical experience necessary to assist in anesthesia, surgery, and dentistry. Areas of concentration include injectable and inhalation anesthesia, dentistry, preparation and monitoring the small animal surgical patient in anesthesia, surgical assistance, maintaining the surgical suite.	
		<i>Current rabies and tetanus vaccinations required.</i>	
		<i>Prerequisites: C or better in: VET 247, and VET 264</i>	
VET	258	Clinical Competency for Veterinary Technicians	2 credits
		A clinical course designed to provide "hands-on" training for veterinary technicians. It offers an opportunity to use and perfect skills learned in other courses in a controlled situation under the direction of faculty. Graded on a Satisfactory/Unsatisfactory basis.	
		<i>Dissection, walking on field trips, and working with large animals are required. Current rabies and tetanus vaccination required. Restricted to Veterinary Technician students.</i>	
		<i>Prerequisites: VET 134, VET 165, VET 247, and VET 261 with a C or better.</i>	
		<i>Co-requisites: VET 248 and VET 270</i>	
VET	261	Animal Facilities Management I	1 credit
		Principles of routine small animal husbandry. Small animal practices found in association with scientific facilities are also considered. Lab will require the daily care of animals.	
		<i>Current rabies and tetanus vaccination required. Restricted to Veterinary Technician students.</i>	
		<i>Prerequisites: A grade of C or better in VET 134 and VET 160</i>	

VET 263 Exotic Pets 2 credits

Provides knowledge and experience with exotic animals and unconventional pets. Emphasis is on the handling of animals, husbandry practices, diseases, types of medications used, and any unique biological factors of the animals—all of which are essential to the technician.

Walking on field trips required. Restricted to Veterinary Technician students.

Prerequisite: A grade of C or better in BIO 100

VET 264 Veterinary Pharmacology 4 credits

Introduces the drugs used in veterinary medical practice, including their actions and possible interactions and side effects. Provides the knowledge needed to calculate drug dosages, administer treatments, dispense drugs to clients as prescribed by the veterinarian, and instruct clients about drug administration and precautions.

Restricted to Veterinary Technician students.

Prerequisite: MTH 130 and a grade C or better in VET 133 and VET 134

VET 265 Veterinary Radiology 2 credits

Introduces the principles of radiation as a diagnostic tool. X-rays and their production, differences in film types and intensifying screens, technique charts, position of the patient for radiographing, use and care of equipment, darkroom procedures and film storage, special radiographic procedures, and radiation poisoning and protection from radiation are covered. Proper methods of radiographing patients in order to produce a good quality radiograph with a minimum of risk are stressed.

Current rabies and tetanus vaccination required. Students will be required to participate in radiographing animals. Restricted to Veterinary Technician students.

Prerequisite: C or better in VET 133, VET 140, and VET 145

Co-requisite: VET 134

VET 268 Reproduction in Domestic Animals 2 credits

Covers the principles of veterinary obstetrics and gynecology. Provides a working knowledge of normal reproductive cycles, pregnancy, gestation, and parturition, as well as of problems encountered in animal breeding.

Current rabies and tetanus vaccination required. Restricted to Veterinary Technician students.

Prerequisite: A grade C or better in BIO 100

VET 270 Clinical Rotation 2 credits

This is a clinical course designed for students in the Veterinary Technician Program. The course will provide clinical, hands-on experience in the areas of clinical laboratory procedures, hospitalized patient care, surgery, anesthesia,

emergency procedures, radiology and dentistry. Hours will be completed in area veterinary hospitals.

Prerequisites: A grade of C or better in VET 160, VET 165, VET 247, VET 265

Co-requisite: VET 248

VET 282 Cooperative Education for Veterinary Technicians I 2 credits

Provides the opportunity to exercise and expand students' skills as veterinary technicians. Co-op students work in a local veterinary practice, zoo, laboratory facility or similar curriculum-related center. Experience will include both administrative and clinical aspects of veterinary practice. Approximately 15-20 hours of work per week plus a weekly seminar are required.

Prerequisites: A grade of C or better in VET 134 and VET 160; documentation of health insurance and current rabies and tetanus vaccination.

VET 283 Cooperative Education for Veterinary Technicians II 3 credits

Provides the opportunity to exercise and expand students' skills as veterinary technicians. Co-op students work in a local veterinary practice, zoo, laboratory facility or similar curriculum-related center. Experience will include both administrative and clinical aspects of veterinary practice. Approximately 15-20 hours of work per week plus a weekly seminar are required. Seminar includes discussion of topics related to success on the job and career exploration.

Prerequisites: VET 153, VET 248; documentation of health insurance and current rabies and tetanus vaccination.

WOMEN'S STUDIES

WST 100 (B) Introduction to Women's Studies 3 credits

Introduction to Women's Studies examines our understanding of the social constructions of gender and their intersections with class, race, region, nationality, ethnicity and sexuality. It emphasizes diversity and multiple perspectives. Topics may include history of women's studies; work; relationships, family and religion; health; politics, law and social policy; violence; sexual orientation and gender identity; medial and cultural images of women; and feminist theories and scholarship. This course emphasizes critical thinking, oral and written communication, and active engagement.

Prerequisites: ENG 101

**WST 215/
LAW 215 (B) Women and the Law 3 credits**

This course examines the legal system in the United States and its impact on the lives of women individually and collectively. Topics will include equal protection, Constitutional issues, education, employment, family law, criminal law, reproductive issues and violence against women.

**WST 217/
CRJ 217 (B) Women, Crime and Justice 3 credits**

An examination of the factors which shape the experiences of women as victims, offenders, and criminal justice practitioners. This course will focus on the pathways to crime among female offenders, the nature of victimization among women, and the challenges that women professionals face. Finally, we will focus on the social construction of gender within the justice system and on the intersection of gender, race, class, and crime.

Prerequisites: SOC 110 or PSY 110

Glossary of Academic Policies, Procedures, and Terms

ABSENCES – See Attendance and Tardiness

ACADEMIC INTEGRITY

Academic integrity is expected of all students. Any dishonesty in the performance of course work, such as plagiarism or cheating in other forms, will be reported. In the event that a student is charged with some form of dishonesty, the Student Discipline Policy will be followed (see the Student Handbook). See “Plagiarism” for additional information.

ADD/DROP PERIOD

Add/Drop is the four-day period at the beginning of each semester when course changes may be made without a formal withdrawal. Students registered in a full-semester class that begins after the Add/Drop period has ended may drop the class and add another if they meet the following conditions: they must obtain a signed authorization from the instructor of the class they wish to add, and they must submit this form to the Student Records Office for processing no later than the end of the second week of classes. Courses dropped during Add/Drop do not appear on the student’s HCC transcript. After Add/Drop, students wishing to leave a course must officially withdraw, and the course and withdrawal (“W” grade) are recorded on the transcript.

Students who do not meet the Self-Service registration criteria (see previous section on My Online Services) or have not received an alternate PIN from their advisor must receive written approval from a college advisor or counselor to make course schedule changes. A discussion with an instructor does not constitute an official course change. Section changes within the same course do not require approval. Both course and section changes are subject to availability of seats in the desired course. Note that courses missed during Add/Drop are subject to the attendance policy of the individual instructor.

ADDING COURSES - See Student Handbook

ADVISING CENTER

The advising center offers academic advising to all students. The center is located in FR273. Advising is available Monday through Thursday, from 8:30 a.m. to 7:00 p.m., and Friday 8:30 a.m. - 4:30 p.m., on a walk-in basis or by appointment.

ADVISORS, ACADEMIC

Every Matriculated students enrolled in credit courses at the college is assigned to either a faculty or staff member for the purpose of academic advising. Together the student and advisor plan the student’s program of study during the Priority Registration periods in the fall and spring. The final responsibility for selecting courses fulfilling graduation requirements rests solely with the student. Students can stop in the Welcome Center (FR 221) or Academic Affairs (FR 317) to find out their advisor’s name and contact information. Students may also check their student account, available on the HCC website by clicking the My HCC link. Evening, weekend, and online students may obtain advising through the Advising Center (FR 271).

There are two Priority Registration periods for current students: one in March (for the fall semester) and the other in October/November (for the spring semester) Students are encouraged to meet with their advisor and preregister for courses during Priority Registration. Exact dates are listed in the academic calendar posted on the college’s website

ARTICULATION AGREEMENTS

The College has numerous Articulation Agreements with four-year institutions that make transfer and acceptance of HCC credits by these institutions both simple and convenient. Prospective transfer students should familiarize themselves with any agreements of interest as early as possible at HCC to ensure that requirements are met. (See “Transfer Compact” or the “MassTransfergeneral education block” and “Tri-Secondary/Post-Secondary Linkages – Tech Prep.”).

Some of the four-year institutions that Holyoke Community College currently has articulation agreements with are American International College, the Art Institution of Boston, Bay Path College, Bryant College, Charter Oak State College, Elms College, Johnson & Wales, Jones International University, Massachusetts College of Art, Nichols College, Pine Manor College, Plymouth University (England), Rivier College, Sacred Heart University, Saint Joseph’s College, Smith College, Springfield College, Western New England College, and Westfield State University. For further information, contact the Transfer Counselor (Frost 221).

ATHLETICS AND RECREATION

The David M. Bartley Center for Athletics and Recreation is the focal point of a variety of programs and opportunities for students. This multi-use facility, which is the site for numerous campus-wide events, includes a fitness and wellness center that features cardiovascular and strength equipment, a group exercise room, a three-court gymnasium, a seminar/classroom, a training and assessment room, and steam/sauna areas. Academic courses, varsity sports, intramurals, recreation, and wellness programs are among the offerings for students. Located adjacent to the outdoor track, fields and courts, the Bartley Center (B.C.) is a resource that enhances the educational experience and lifestyle of students through its programs and activities.

ATTENDANCE AND TARDINESS

All students are required to report to all classes on time. Persistent absence or tardiness may result in grading penalties or the student’s dismissal from class and a grade of AW (Administrative Withdrawal). Students will be informed in writing of each instructor’s attendance policy at the start of classes and are required to adhere to them. ***It is the prerogative of the instructor in cases of extended illness or serious accident whether or not the student will be allowed to continue in the course.***

RELIGIOUS BELIEF ABSENCES POLICY

Chapter 151 C, Section 2B, of the Massachusetts General Laws allows students who cannot attend classes, take examinations, study or fulfill work requirements on a particular day due to their religious belief, to be excused from such obligations. Students must be provided with opportunities to make up exams, and study or work requirements, provided that this does not create an unreasonable burden upon the instructor. Students may not be charged for such makeup opportunities, or be adversely or prejudicially affected for taking advantage of these provisions. Students should notify instructors in advance so that accommodations can be made if necessary.

AUDITING A COURSE

Students auditing a course for no credit are expected to comply with the attendance regulations of the instructor or attend 80% of the classes, whichever is greater, but are relieved of completing written work (assignments, tests, and examinations). Laboratory classes may be excluded from this requirement at the discretion of the instructor. Permission to audit a course will be granted only when students are able to show that doing so is consistent with their educational objectives. An “Audit” grade cannot be used to satisfy a graduation requirement. A student registering for a course as an audit must complete a form available in the Welcome Center (Frost 221). Copies of the form will be given to the student and to the instructor. Students have

the responsibility to inform the instructor in writing that they are auditing the course and to request the instructor's attendance policy and all requirements (excluding written work) that must be completed to receive a grade of "Audit."

Students registering to audit a course may not change their status after the close of the add/drop period.

Students who do not complete the requirements for an "Audit" in a course will have a grade of "W" recorded for that course.

CAREER PROGRAMS AND OPTIONS

Career Programs and Options are designed for students who desire to enter one of the many careers for which an Associate Degree is sufficient preparation. Career programs serve a two-fold purpose: they offer a general education that provides an understanding of the world as well as preparation for a particular occupation. Because these programs are not designed for ease of transfer, but for career preparation, not all of the coursework may be transferable to four-year institutions.

CAREER SERVICES

Career Services include career exploration, planning, counseling, job search, and job placement. The workshops, print materials, and computerized career resources in the Career Center help students to choose a career path based upon their abilities, values, interests and academic background, as well as job-market information.

The Center has print and computerized resources for career assessment of student interests and aptitudes and a listing of careers/majors for which they would be best suited, information on specific careers and information on transferring to other colleges and universities. Computerized resources include FOCUS, Career Cruising, and Massachusetts Career Information Systems (MASS CIS). In addition, career counselors are available by appointment.

Software programs in the Career Resource Center also include resume writing and a job-listing system that provides information on job openings with area employers. Career workshops are offered on a regular basis, and students are encouraged to use the Center's resources during their entire time at Holyoke Community College. Internet access is also available through the Career Center website <http://www.hcc.edu/campus/career.html>. Placement packets are available for graduating students.

The Career Center provides resources offered by CareerPoint, the federally-funded, one-stop career center located in downtown Holyoke. A computerized database of CareerPoint job opportunities and information is available. Students are also referred to CareerPoint staff for follow up. FutureWorks, the federally-funded, one stop career center in Springfield, also shares its job database with the Center. The Career Center also promotes work experience opportunities through InternHere.com a resource of the Hartford Springfield Economic Partnership (HSEP).

Students interested in transfer information have access to the College Source software that provides access to virtually all U.S. colleges and many others worldwide. Students who choose to transfer should consult with the College's Transfer Counselor or attend a group workshop. Computerized financial aid information is also available.

The Career Center is located in Kittredge 322. For further information contact the Co-Operative Education and Career Services Office at (413)552-2322.

CERTIFICATES - See "Areas of Study" Section

CENTER FOR ACADEMIC PROGRAM SUPPORT (CAPS)

The Center for Academic Program Support (CAPS) provides comprehensive academic support to meet the learning needs of all HCC students – inside and outside the classroom. CAPS' three centers include: Tutoring, Writing/ESL, and Math. CAPS, is located in the Donahue building (DON 240) next to the HCC Library, and provides a variety of academic support services for students who

need help with reading, writing, math, study skills, college courses, and personal management skills relating to college through the use of learning coaches. Centers are open when classes are in session during the day and in the evening, and services are free to all HCC students. Call (413) 552-2584 for information.

Tutoring

Free one-on-one and small group tutoring is available Monday through Thursday 9:00 a.m. to 6:00 p.m. and Friday from 9:00 a.m. to 2:00 p.m.. Tutoring addresses such concerns as understanding course content, reading textbooks, and preparing for tests. To obtain a tutor, go to the Tutoring Center in DON 244. Tutoring is available on drop-in or appointment basis. Tutoring is also available online through the Connecticut Distance Learning Consortium (CTDLC) eTutoring platform 24/7. The subject areas offered online are: Writing, Math, Statistics, Calculus, Accounting, Biology, Chemistry, Nursing, Anatomy and Physiology, Information Literacy and Research Methods.

Writing/ESL

The Writing Center (Donahue 238) is open Monday through Thursday from 9:00 a.m. to 6:00 p.m. and Friday 9:00 a.m. to 2:00 p.m. Contact the Writing Center at 413-552-2599 for more information. The Writing Center offers students free drop-in consultation and assistance related to any college course that requires writing assignments such as essays, research papers, or literary analyses. Handouts, handbooks, videos, and software are available to help students who are working on elements of the writing process, citation methods, grammar, punctuation, and other writing-across-the-curriculum issues. The ESL Support Program offers tutoring services within the Writing Center. Please call the ESL Support Office at 413-552-2553 for further information.

Math Center

The Math Center offers free tutoring for any college math course and math topics related to science, business, health, and other fields. The Center, located in Donahue 246, is open for drop-in help Monday through Thursday 9:00 a.m. to 6:00 p.m. and 9:00 a.m. to 3:00 p.m. on Friday. The Center provides help with course content, study skills, problem-solving strategies, and ways to overcome math anxiety. Handouts, videos, and software dealing with algebra, basic math, calculus, and other topics are available. Students may also receive assistance by calling the Math Help Desk at (413) 552-2423 or by accessing the online math tutoring, <http://webtide.hccdl.org>.

CHANGES OF CURRICULUM AND ENROLLMENT RESTRICTIONS

Any curriculum change, such as a change of program or department, should be undertaken only after seeking the advice of the program coordinator, academic advisor, or career counselor. A Change of Major Form must then be filled out in the Academic Affairs Office. In some cases, graduation may be delayed due to different program requirements.

Applied Technology
Early Childhood Education
General Integrated Studies
Medical Assistant
Music

Nursing
Radiologic Technology
Veterinary and Animal Science
Visual Arts

Certain day programs have enrollment limitations and can be entered only with the Program Coordinator's approval. In some cases, applicants may be placed on a waiting list. These programs are:

COMMUNITY SERVICES

Community Services provides programs, services and support that make a positive difference in people's lives. Whether it be professional development, enrolling in a fun evening or weekend course, preparing for the GED, summer programs for youth, or lifelong learning for seniors, Community Services provides memorable learning experiences that address both the personal and organizational lifelong educational needs of all residents. We offer a wide variety of programs that offer tremendous value. Community Services also helps forge strong community partnerships and collaborations. We provide:

Computer & Technology Courses

Community Services offers over 35 different non-credit courses for both novices and technology savvy life-long learners that run from 1 week to five weeks. Choose from programs utilizing Microsoft® Windows®, Word®, Excel®, Access® and Powerpoint® software. We offer both beginning and advanced levels of Quickbooks® and the Adobe® CS6® suite of programs including Dreamweaver®, Photoshop®, Illustrator® and InDesign® software classes. For users of Macs, we provide classes in Mac® Computing and a variety of iPad® classes. For more information, please call Community Services at 552-2324.

CONTINUING EDUCATION UNITS (CEU'S)

CEU's are a measurement and record-keeping device for certain offerings and cannot be converted to credit. A CEU is equivalent to ten hours of planned learning activity having responsible sponsorship, capable direction, qualified instruction and some form of evaluation of the student. Grades recorded for CEU's are "S" (satisfactory) or "U" (unsatisfactory). A grade of "S" can be obtained only if the student satisfactorily completes the attendance and course requirements.

Holyoke Community College Workforce Testing and Assessment Center

The center offers a variety of tests/assessments, which help individuals obtain professional certifications or credentials.

General Testing Hours:

Monday, Tuesday, Thursday, Friday, 8 a.m. – 12 p.m. and 1–4 pm.

Wednesday 8:30 a.m. - 12p.m. and 1-8 p.m.

Hours may change, please call for registration and to schedule your testing appointments.

HCC High Stakes Testing Center
Kittredge Business Center, Room 204
303 Homestead Avenue
Holyoke, MA 01040
Tel: 413 / 552.2112
Fax 414 / 552.2745

CLEP: The College-Level Examination Program (CLEP®) gives you the opportunity to earn college credit for what you already know with qualifying scores on one or more CLEP examinations. CLEP allows students to demonstrate that they have acquired college-level mastery of course content in 33 different subject areas. Holyoke Community College awards credit for successful scores on 30 CLEP exams.

Students who successfully complete a CLEP exam can:

- Enrich their degree programs with higher-level courses in the same discipline
- Expand their horizons by taking a wider array of electives
- Avoid the need to repeat material that they already know

Costs:

\$30 Registration Fee (money order only, payable to HCC/CBPD) and
\$77 Exam Fee (payable directly to CLEP by valid debit/credit card at the test center the day of your testing appointment).
The exam fee is waived for qualifying military personnel.

Kittredge Center for Business and Workforce Development

Holyoke Community College through the Center for Business and Professional Development offers a number of workforce programs and classes, which provide training for individuals seeking a job or enhancing their skills. There is a wide range of programs from Certified Nursing Assistant to Project Management or from American Management Association University Program to Emergency Medical Technician. The programs are fee based and more information is available at 413-552-2506.

Non-Credit Courses

Community Services offers something for everyone. These courses don't have grades or exams - just life enhancing learning experiences in a fun, enjoyable environment. A diverse array of students of all ages enroll in our courses, so attending is an excellent way to get acquainted with new people who have similar interests and talents to your own. For a complete listing of offerings, check the HCC Course Bulletin published every semester or check the college website under Publications <http://www.hcc.edu/about-hcc/generalinformation/publications>. We are located in the Kittredge Center, Room 219 at (413) 552-2324.

Preparation for Massachusetts Real Estate Brokers and Salespersons Exam

We offer the MA state authorized Salespersons and Brokers exam preparation course in the Spring, Summer and Fall semesters. For more information, contact us at (413) 552-2324.

Professional Development for K-12 Educators

Community Services offers on-line, VESI® interactive courses which are convenient, superior quality courses packed with practical applications for the classroom. Earn MA PDPs in these accredited self-paced and user-friendly programs and you'll have six months to complete the course. In addition to "Undergraduate Professional Development Level" (UPDL), VESI professional development programs at the "Graduate Professional Development Level" (GPD) are available. For information, contact Community Services at (413) 552-2324.

100's of On-line Courses with ed2go®

In partnership with ed2go®, we offer a wide range of highly interactive non-credit courses that you can take entirely online. Courses include expert instructors, many of whom are nationally known authors. Ed2go® online courses are affordable, fun, fast, convenient, and geared just for you! These practical and highly effective ed2go online courses cover just about every topic you can imagine. Some examples:

- Accounting Fundamentals
- A-Z Grant Writing
- Introduction to SQL
- Introduction to PC Troubleshooting
- Genealogy Basics
- Advanced PC Security
- HIPPA Compliance
- Conversational Japanese and much more.

For more information and registration options, go to www.ed2go.com/holyoke

Youth Summer Programs

Community Services offers programs for youth during the months of June, July and August. Families can select from separate 1-week programs in baseball, basketball, soccer, as well as a variety of academic offerings. For more information on these summer youth programs, contact us at (413) 552-2324.

COMPUTER SKILLS

Technology is clearly a fundamental part of the fabric of modern life. Because computer skills are essential to success in most career areas, Holyoke Community College has invested heavily in computer equipment and the human support necessary to make that equipment useful. The College has 31 computer labs equipped to support our diverse educational offerings. Features include: high-speed Internet access, four electronic LABS, areas on campus for wireless connection, five state-of-the-art MAC labs, and several "smart classrooms" wired for videoconferencing. In addition, Holyoke Community College has recently embarked on an initiative to expand its distance learning options, offering more online classes than ever before. As a result, the opportunity to develop or enhance computer skills in two areas – word processing and information retrieval – is incorporated into the schedule of every student enrolled at the College. In addition, all students have numerous other opportunities to explore more advanced computer areas, such as graphic design, electronic media, geographic information systems, web page design, and many more.

COOPERATING COLLEGES OF GREATER SPRINGFIELD (CCGS)

Holyoke Community College has joined seven other area colleges, both public and private, to develop cooperative programs and services designed to enhance the educational experience. Included are student and faculty inter-college library privileges, joint student activities, and academic cooperation. Known as the Cooperating Colleges of Greater Springfield (CCGS), the association was formed in 1970 by the Presidents of each of the member institutions: American International College, Bay Path College, Elms College, Holyoke Community College, Springfield College, Springfield Technical Community College (STCC), Western New England College and Westfield State University (WSC).

Probably the most important cooperative endeavor is academic exchange. Each Fall and Spring term, any Day Division CCGS student carrying at least six credits may enroll at another CCGS college at no additional cost for any course not offered at his or her own institution, excluding DCE and summer offerings, on a space-available basis. The course is scheduled as part of the student's normal schedule credit load, and all records of the registration and grade are kept by the Registrar of the home college. This cross-registration includes an Army ROTC Program.

The three public colleges in the area, HCC, STCC, and WSC, have formed the Public College Collaborative in which sharing of resources and faculty, and student cross-registration, are encouraged.

CO-REQUISITE

A requirement that must be fulfilled at the same time as another requirement. All course co-requisites are listed in the **COURSE DESCRIPTIONS** section of this catalog. If none is listed by a course, none exists for it. (See Pre-Requisite)

Students may petition to be excused from co-requisites. To do so, they must present a written argument, using a form designed for this purpose, justifying their request and secure the agreement and signatures of both the course instructor and Division Dean or his/her designee.

COUNSELING SERVICES

The mission of Counseling Services is to help and empower students in a supportive confidential environment to be successful through meaningful personal, social, and academic discovery and growth.

A staff of professional counselors assists students in exploring their educational goals, planning their educational programs, and identifying the various demands and implications of college life. Services are provided individually, and in groups.

Services such as psychological assessments and testing, clinical diagnosis and treatment, psychotherapy, family therapy, couples counseling, medications, or emergency after hours services are not provided by the College.

Should a student require assistance outside the scope of college counseling services, referrals are made to appropriate community agencies.

The counseling staff utilizes the ethical standards of recognized professional organizations. Accordingly, each individual's right to privacy is protected. Services are available day and evening. For an appointment, contact the Counseling Services office at 552-2232, Frost 233.

COURSE DESIGNATIONS

Code (A) English Composition	Code (C) Humanities and Fine Arts
Code (B) Behavioral and Social Science	Code (D) Natural or Physical Science; Mathematics

(See "**COURSE DESCRIPTIONS**" section, beginning on page 147 for additional information)

COURSE LOAD

A full-time course load is twelve to eighteen credits; a part-time load is eleven or fewer credits. Students normally carry fifteen credits if they plan to graduate in two years and are enrolled each year in the two fourteen-week semesters. Students who wish to carry more than eighteen credits to accelerate their progress must have a cumulative grade point average of at least 3.0 and obtain written permission from the Office of Academic Affairs. When registering for classes, students should keep in mind that one credit normally requires at least three hours of study per week.

COURSE REQUIREMENTS

Course requirements are determined by each instructor, based upon College-approved course syllabi. These requirements will be presented to students, in writing, at the beginning of the semester, and must be adhered to. They cover such things as attendance policy, course requirements and expectations, reading assignments, examination procedures, make-up procedures, grading policy, and the academic content of courses.

CREDIT

Successful completion of most courses results in the awarding of a specific number of credits. Degrees or Certificates are awarded when enough credits are accumulated to meet specified requirements. (See Transfer Credit)

CREDIT BY EXAMINATION

Holyoke Community College grants transfer credit for sufficient scores on certain Advanced Placement¹ (AP) and College-Level Examination Program (CLEP). An official score report must be sent directly from the testing agency to the College Registrar.

¹The College accepts credits in many subject areas for Advance Placement scores of three or higher. The Registrar can provide more specific information upon request.

Challenge Examinations

The College grants transfer credit for satisfactory performance on challenge examinations produced and administered by the College. Challenge examinations are not offered for courses already tested by a CLEP Subject Exam or for courses that duplicate work offered by secondary schools (e.g., Algebra I and II, remedial English, or General Studies courses); or for studio art or music performance courses, which seek to improve skills rather than impart a body of knowledge.

Challenge examinations are administered by the individual Division offices. They are graded on Satisfactory/ Unsatisfactory (S/U) basis and credit is awarded by the College after approval by the Vice President for Academic Affairs. The challenge examination fee is one-half of the full cost of the course.

DEAN'S LIST - *See Honors*

DEGREE AND CERTIFICATE REQUIREMENTS – (*Graduation Requirements*)

Upon recommendation of the faculty, candidates may be awarded the degree of Associate in Arts (A.A.) or Associate in Science (A.S.) as well as certificates. Candidates for degrees must fulfill the following requirements:

1. Complete the requirements of the Program or Option in which enrolled.
2. Present at least sixty credits, of which at least thirty must be earned at the College. However, students may request a waiver of this requirement. Waivers are granted on a case-by-case basis. Waivers are requested through the Office of the Vice President for Academic Affairs.
3. Achieve a cumulative grade point average of at least 2.0.
4. Satisfy all financial obligations to the College.
5. For Perkins Loan, Guaranteed Student Loan, and Nursing Student Loan recipients, complete an exit interview with the Student Aid Officer or representative.
6. All students who begin their studies at Holyoke Community College in Fall 2007 or later and are seeking an A.A. or A.S. degree will be required to demonstrate basic computational skills before earning their degree. These skills may be demonstrated by:
 - a. achieving a score on the arithmetic portion of the Math Placement Exam sufficient to be excused from (MTH 075);
or
 - b. passing Basic Mathematics (MTH 075) with a grade of "C-" or better; or
 - c. receiving transfer credit or CLEP exam credit for a college-level Math course

Candidates for certificates must fulfill the following requirements:

1. Complete the requirements of the Certificate Program in which enrolled.
2. Achieve a cumulative grade point average of at least 2.0.
3. Satisfy all financial obligations to the College.

Requirements for each Program and Option are established by the academic divisions of the College and approved by the

Faculty. All students should examine their Program and Option descriptions and course sequences carefully. Each course listed must be successfully completed. Some Programs require more than the minimum 60 credits for the degree, and certain programs set minimum grades to be achieved in specific courses. Only six semester hours or two non-Arts and Science courses may be taken as general electives in any A.A. Arts and Science option, unless otherwise specified. Students may be excused from any requirement only by the Vice President for Academic Affairs and only for very compelling reasons, upon recommendation of the department chair and division dean.

Students matriculating in Associate of Arts (A.A.) Degree Programs at Holyoke Community College are required to complete the following core of 35 general education credits:

- English 101-102: Language & Literature 6 credits
- Two natural science laboratory courses (See Laboratory Science Requirement) (D) 8 credits
- Nine credits from any of the following: anthropology, economics, geography, government, history, psychology, social science or sociology. (B) 9 credits
- Math (100 level) (D) 3 credits
- Nine credits from any of the following: art, communications, English, French
- German, history, honors, humanities, music, philosophy, Spanish, theater (C) 9 credits

Students matriculating in the Associate of Science (A.S.) or Associate of Arts in Music Degree Programs at Holyoke Community College are required to complete the following core of 20 general education credits:

- English 101-102: Language & Literature 6 credits
- Six credits from any of the following: anthropology, economics, geography, government, history, psychology, social science or sociology (B) 6 credits
- Two natural science laboratory courses (See Laboratory Science Requirement) (D) 8 credits

Students seeking an additional Associate Degree are required to complete at least 15 additional credits in the newly declared discipline. Note that credits earned in any "0"-level course taken after August 1990 will not count toward graduation.

Mathematics Competency

All students who entered Holyoke Community College in Fall 2007 or later and are working towards an A.A. or A.S. degree will be required to demonstrate basic computational skills before graduating. Competency may be demonstrated by:

- a. Achieving a score on the arithmetic portion of the Math Placement Exam sufficient to be excused from Basic Mathematics (MTH 075); **or**
- b. Passing Basic Mathematics (MTH 075) with a grade of "C-" or better; **or**
- c. Receiving transfer credit or CLEP exam credit for a college-level Math course

General Degree Requirements

The following five core competencies will be incorporated into the student learning outcomes of every degree program at the College no later than the start of the fall 2009 semester.

- a. Critical Thinking
- b. Information Literacy
- c. Effective Communication
- d. Knowledge of Diversity
- e. Quantitative Reasoning

DEVELOPMENTAL COURSES

To determine whether students are adequately prepared to succeed in college-level English and Math courses, they are required to take a placement assessment upon admission to the College (See "*Placement Assessment*" in the GENERAL INFORMATION section). Students who do not successfully place into college-level ("100-level") courses are required to take developmental or remedial courses. These courses are designed to develop and enhance students' competence in English and Math.

Credits earned in developmental courses are used for the purposes of determining students' status as full or part-time and their eligibility for financial aid; however, these credits do not count toward the total credits required for graduation in any area of study offered at Holyoke Community College. Effective with the 1998-1999 academic year, developmental course credits (courses numbered below 100), which do not currently count toward graduation, shall not be included in a student's Earned Hours, Quality Hours, or Grade Point Average. Developmental course credits shall be included in Attempted Hours for Financial Aid purposes.

DISABILITIES, ASSISTANCE FOR STUDENTS WITH

The Office for Students with Disabilities provides assistance for students with documented disabilities. Students should contact the office before beginning their first semester so that services can be provided in a timely manner. Each student's instructors and appropriate campus services are involved in this process.

Available assistance may include assistive technology, academic counseling, and interpreting services for the Deaf and hard of hearing. For information call 552-2417. (See Office for Students with Disabilities, in the **GENERAL INFORMATION** section.)

DISHONESTY - *See Academic Integrity*

DISMISSAL - *See Probation And Dismissal, Academic*

DROPPING A COURSE - *See Student Handbook*

ELECTIVES

Electives are courses that support general education objectives or round out curricular requirements. The choice of electives is based on the following:

Program/Option/Suggested Elective – Students choose from a restricted group of courses specified in the description of the Degree Program or Option.

General Elective – Students elect any course found in the HCC Catalog or accepted in transfer from another college. A general elective, when included in a Program or Option, permits students to explore areas outside of their declared Area of Study.

ENROLLMENT RESTRICTIONS – *See Changes of Curriculum and Enrollment Restrictions*

EXAMINATIONS/MAKE-UPS

At least three, one-hour examinations or their equivalent in other written exercises are scheduled in each course each semester. Two-hour final examinations or their equivalent are also scheduled in each course and must be given during the final examination period. At the discretion of the instructor, students of superior achievement may be excused from taking the final examination.

Students who wish to make up an examination must consult with and receive permission from their instructor prior to the scheduled date of the examination. It is the student's responsibility to make the necessary arrangements with an instructor regarding all make-up examinations.

Students who have had at least one year of high school Spanish or one semester of college Spanish are eligible to take SPA 111 - Spanish for Health Related Careers. Native speakers of Spanish who are interested in a career in the medical fields should take the SPA 112 class.

FEDERAL WORK STUDY - (*Community Based*)

Community based, Federal Work Study is an excellent way for qualified students to work in paid positions that compliment academic and career goals. Students derive a sense of accomplishment by helping to improve the quality of life for local residents in agencies that offer the following services:

Health care, child care, literacy training, education (including tutorial services), welfare, social services, public safety, crime prevention and control, disability services, elder care, recreation, animal protection and care, community and economic development, immigration services, veterans outreach, civic engagement and emergency preparedness and response.

Students and employers of non-profit agencies, Federal, State and local public agencies, find this type of employment to be mutually rewarding and enriching. Federal Work Study experience builds resumes and strengthens character. Students who are eligible for Federal Work Study may apply for a work placement in the community by contacting the Federal Work Study Coordinator, Dorothy Blair @ 552-2064 or e-mail dblair@hcc.edu.

FOREIGN LANGUAGES PLACEMENT

Students without foreign language experience will be placed into the first elementary course. Those who have studied a foreign language previously will be placed according to the following chart:

High School Study of Foreign Language	Course at HCC
0-1 year	SPA 101 or FRH 101
2 years, grades C or D	SPA 101 or FRH 101
2 years, grades A or B	SPA 102 or FRH 102
3 years, grades C or D	SPA 102 or FRH 102
3 years, grades A or B	SPA 201 (C) or FRH 201 (C)

4 years, grades C or D

SPA 201 (C) or FRH 201 (C)

4 years, grades A or B

SPA 202 (C) or FRH 201 (C)

4+ years, grades A or B

SPA 202 (C) or SPA 214 (C) or SPA 205 (C)

Native Spanish Speaker

SPA 203 (C) or SPA 204 (C)

EXCEPTION— If more than three years have passed from the time the student took the foreign language course, it is then recommended that he or she be placed in 101.

FOREIGN LANGUAGE REQUIREMENTS

Because of the differences in techniques of language instruction among colleges, students should plan to complete all of the language requirements for the bachelor's degree either at HCC or at a transfer institution, rather than attempting to divide them between the two.

At the University of Massachusetts Amherst College of Arts and Science, the foreign language requirement is satisfied by any of the following:

1. Completion of a foreign language course at the intermediate level (i.e. SPA 202).
2. Satisfactory performance on the placement test.
3. Four high school units in one foreign language or three units in one and two units in another foreign language.
4. A year in a high school in which English is not the basic language.

FRESH START POLICY

Once in a lifetime, students returning to Holyoke Community College after being away at least three consecutive years, and who had a cumulative grade point average (G.P.A.) of less than 2.0 when they were previously at the College, may elect a "Fresh Start" option. The option works as follows:

1. Former work will remain on the student's transcript as a matter of record, but will not be used in calculating the student's G.P.A. If a student requesting financial aid is judged to be ineligible due to the Standards of Satisfactory Progress for Federal Financial Aid, he/she may appeal.
2. Former work meeting the requirements of the College's regular transfer policy (see Transfer Credit) will continue to count in earned hours, but will not be calculated in the G.P.A. The course work may be applied to the student's declared program of study if applicable. A minimum of 15 credits must be completed after electing the Fresh Start Option in order to earn a degree or certificate.
3. Students earning fewer than 30 credits in the Fresh Start Option cannot be graduated with honors.
4. Students must select "Fresh Start" not later than 4:30 p.m. on the last scheduled day of classes of the semester in which they return to the College.
5. Transcripts of "Fresh Start" students will include a statement explaining the "Fresh Start" Option.

Contact the Academic Affairs Office at (413) 552-2770.

GRADING SYSTEM

Grade	Explanation	Numerical Score	Grade Points
A	work of superior and outstanding quality	93-100	4.00
A-		90-92	3.65
B+		87-89	3.35
B	work decidedly above average	83-86	3.00
B-		80-82	2.65
C+		77-79	2.35
C	work of average quality	73-76	2.00
C-		70-72	1.65
D+		67-69	1.35
D	work decidedly below average, but passing	63-66	1.00
D-	work decidedly below average, but passing	60-62	0.65
F	work not passing, no credit earned	0-59	0.00
S	Satisfactory	70-100	--
U	Unsatisfactory	0-69	--
AU	Audit	--	--
I	Incomplete (see below)	--	--
WX	Administratively withdrawn from class; never attended. Not calculated into the G.P.A.	--	--
AW	Dismissed from class by instructor for excessive absences. Not calculated into the GPA.	--	--
W	Student withdrew from class. Not calculated into the G.P.A.	--	--

Effective fall 1998, developmental course grades are preceded by X (example: XA)

INCOMPLETE GRADE

The grade of "I" is given to a student who for good reason (e.g., illness) is temporarily unable to complete the work in a course. The student has until the middle of the following semester (specified on the academic calendar) to complete work for Incomplete courses other than those that serve as a prerequisite for another course. Unless waived, prerequisite course requirements must be completed before the first day of the following semester/summer.

A grade of "F" will be recorded for work not completed as required.

MID-SEMESTER PROGRESS REPORT

Mid-semester grades are made available to students in the HCC Online Services during the priority-registration period. These grades provide some guidance in the selection of the next semester's courses. All grades, especially those representing below-average achievement, should be discussed with course instructors and academic advisors.

Mid-semester grades do not become part of permanent records, but are an important indicator of academic progress to date.

GRADE POINT AVERAGE (G.P.A.)

The Grade Point Average is computed by multiplying the grade point value of each grade earned by the number of credits in the corresponding course, adding all course grade points together, then dividing the total by the number of Grade Point Hours. Effective with the 1998-1999 academic year, developmental courses (courses numbered below 100) are not included.

The grades of AW, W, I, Audit, and S-U grades are not included. Effective Fall 1999, FX grades are not included.

Example:

ENG 101 - 3 credits		
Grade in ENG 101 = A (4.00 grade points)	3 credits x 4 grade points =	12.00 grade points
SOC 110 - 3 credits		
Grade in SOC 110 = C (2.00 grade points)	<u>3 credits</u> x 2 grade points =	<u>6.00 grade points</u>
	6 credits	18.00 grade points
18 grade points ÷ 6 credits = 3.00 grade point average		

REPEATING COURSES

Students may repeat courses at HCC in an attempt to earn credit or improve their Grade Point Average. Credit may not be earned twice for a repeated course. Although all grades, including those in repeated courses, will appear

on transcripts, students may petition the registrar to have their GPA recalculated to exclude the previous grade and to reflect the current grade. This petition must be filed prior to mid-semester of the term in which the course is being repeated. **Financial aid can only pay for one repeat of a previously passed course.** This repeat policy applies even if the student did not receive financial aid when enrolled in the course in the past.

SATISFACTORY/UNSATISFACTORY (S/U) OPTION

Students may elect to be graded on a Satisfactory-Unsatisfactory basis in one elective course per semester. This option should not be used in courses required in a student's intended concentration in a four-year institution. If the student passes the class, a grade of S is recorded; otherwise, a grade of U is recorded. Neither grade affects the G.P.A.

The appropriate form in the Welcome Center must be completed by the end of the add/drop period in order to elect the S-U Option.

Electing the S/U option may affect the transferability of a course.

GRADUATION REQUIREMENTS - See *Degree and Certificate Requirements*

GREEN KEY HONOR SOCIETY

The Green Key Honor Society is a leadership and service organization dedicated to representing HCC at community and college events. Members serve the entire college community as tour guides, hosts, and ushers at special events such as orientation, Honors Convocation, college fairs, and information sessions. To support other HCC students, Green Key members are committed to providing scholarships through fundraising events.

Faculty members, professional staff members, members of the present Green Key, or the Presidents of recognized student organizations are given an opportunity to nominate students who demonstrate excellence in the HCC community. Nominees must also have a 3.0 GPA and have earned at least twenty credits. Appointment to Green Key occurs once a year and is a great way for students to enhance their academic career and develop leadership skills while serving the college community.

HONORS, ACADEMIC

DEAN'S LIST (FULL-TIME AND PART-TIME)

The Vice President for Academic Affairs recognizes superior scholarship through the Dean's List each semester. Each time a student attempts twelve credits, that student is evaluated for the Dean's list and is placed on the Dean's List if his/her G.P.A. is 3.2 or higher for that group of twelve credits. Each group of twelve credits is evaluated sequentially; no carryover of credits is allowed.

HONORS AT GRADUATION

Graduating students who have earned a cumulative G.P.A. of 3.2 through 3.699 will be awarded the Associate degree with honors. Those who have earned a cumulative G.P.A. of 3.7 or better will be awarded the Associate degree with high honors.

PHI THETA KAPPA

Honors--Phi Theta Kappa

Phi Theta Kappa is an international honor society for community and junior colleges. The purpose of Phi Theta Kappa is to recognize and encourage scholarship among associate degree students. Students do not need faculty nominations in order to join. Students must meet the following criteria at least one full semester prior to graduation in order to qualify for Phi Theta Kappa membership:

1. Have successfully completed 30 semester hours at HCC (transfer hours and credits from 0-level classes are not included)
2. Have achieved a minimum cumulative GPA of 3.50
3. Have never graduated from HCC

Continuing students who qualify at the end of the spring semester will receive invitations the following fall, and will be invited to attend the fall Honors Convocation. Continuing students who qualify at the end of the fall semester will receive invitations the following spring. Students will not be offered membership outside the regular Fall/Spring semester cycle.

PSI BETA

Psi Beta is a national honors society in psychology for community colleges. It is affiliated with the American Psychological Association (APA), the American Psychological Society (APS), and is a member of the Association of College Honor Societies.

Membership in Psi Beta requires students to achieve a GPA that puts them in the top 35% of the student body. Completion of at least 3 courses in psychology at the college with at least a B average or better. Students must demonstrate a genuine interest in psychology and high standards in personal behaviors

HONORS PROGRAM

The Honors Program offers opportunities for intellectual challenge to students in every discipline. For the student who excels academically and plans to transfer to a selective college or university, the Honors Program provides challenging courses with a strong emphasis on reading, writing, and critical thinking across the discipline.

The Honors Program offers interdisciplinary Honors Learning Communities (LCs) and Honors colloquia, as well as stand-alone Honors courses in the academic disciplines. Students may also pursue Honors Projects in connection with most HCC courses.

Entrance into the program is flexible. Students who score 100 points or above on the English entrance exam will be invited to enroll in Honors ENG 101. Students who earn a B+ or better in any section of ENG 101 will be invited to join an Honors LC. Students who have earned a 3.5 GPA after completing 24 credits (including ENG 102) will be invited to join an Honors Colloquium. Students are not obligated to take Honors ENG 101 in order to take an Honors LC, nor are they required to take the Honors LC in order to enroll in the Honors Colloquium.

Students who complete 9 credits of Honors work with a grade of B or better and who achieve a cumulative GPA of 3.5 or above may graduate as Commonwealth Honors Scholars. This designation will appear on their transcripts, and will be noted in the Commencement Program.

All Honors credits completed at HCC will be accepted as Honors credits at all Massachusetts colleges and universities.

For further information, please contact Dr. Kim Hicks, Honors Program Coordinator at (413) 552-2197, or email khicks@hcc.edu.

HONORS LEARNING COMMUNITIES

Honors Learning Communities are interdisciplinary courses organized around a specific theme and taught by faculty members from different disciplines. Honors LCs may be worth 6 or 7 credits, depending on the courses they combine.

HONORS COLLOQUIA

Honors Colloquia are designed to bring together students from many academic disciplines to consider a theme or issue of current concern from a variety of perspectives. Colloquia are 6-credit multidisciplinary courses that are competitively enrolled and limited to 15 students. Credits earned in this course may be designated as "B" or "C" credits, depending on the nature of the student's final course project. Colloquia generally offer field trips and a series of guest speakers. The Honors Program provides Colloquium students with the course's required texts.

HONORS PROJECTS

An Honors Project consists of independent work undertaken in addition to the regular requirements of an existing HCC course (ENG 101, 0-level courses and Honors courses excepted). Such work may consist of an extra paper, a paper of greater length or complexity, a research project, or creative work. Students interested in proposing an Honors Project should consult their faculty member, then fill out a proposal form (available in FR 270). The Integrative Learning Committee will review all proposals. When a student's proposal has been approved and his/her Project completed, s/he may then register for HON 201, a one-credit course that will bear the Project's title on the student's transcript.

STAND-ALONE HONORS COURSES

Each semester faculty may choose to offer Honors sections of existing HCC courses. Honors sections will require students to cover the standard course content, but will also include opportunities for more advanced work as appropriate to the discipline, such as more extensive assigned reading, more complex or frequent writing assignments, and/or increased opportunity for independent research.

COMMONWEALTH HONORS SCHOLAR DESIGNATION

Students who complete 9 Honors credits at HCC with a grade B or better and who achieve a cumulative GPA of 3.5 or above may graduate as Commonwealth Honors Scholars. At least 6 of the 9 Honors credits must be earned in interdisciplinary courses (LCs or Colloquia). The remaining credits may be earned as Honors Projects or in stand-alone Honors courses

JOINT ADMISSION - See "General Information" or "MassTransfer" section

LABORATORY SCIENCE REQUIREMENT

If not specified as part of an Area of Study, the laboratory science requirement may be fulfilled by:

1. Electing any two of the following laboratory science courses:

AST 110 (D)	BIO 116 (D)	EGR 110 (D)	FRS 101 (D)
AST 116 (D)	BIO 217 (D)	ENV 120 (D)	FRS 201 (D)
AST 140 (D)	BIO 218 (D)	ENV 124 (D)	PHS 118 (D)
BIO 100 (D)	BIO 120 (D)	ENV 137 (D)	SEM110 (D)
BIO 103 (D)	BIO 130 (D)	ENV 138 (D)	SEM 116 (D)
BIO 107 (D)	BIO 203 (D)	ENV 140 (D)	SEM 118 (D)
BIO 109 (D)	BIO 212 (D)	ENV 230 (D)	SEM 130 (D)
BIO 110 (D)	BIO 222 (D)	ENV 253 (D)	VET 224 (D)
BIO 111 (D)	BIO 223 (D)	ESC 111 (D)	
BIO 112 (D)	BIO 230 (D)	ESC 120 (D)	
BIO 115 (D)	BIO 243 (D)	ESC 130 (D)	

2. Electing one of the following two-course sequences in the order given:

PHS 101-102 (D) or PHS 111-112 (D)

CHM 101 (D), CHM 113 (D) or CHM 121 (D), AND

CHM 102 (D), CHM 114 (D), or CHM 124 (D)

The following sequences may be used only if they are specified or recommended as part of the students area of study.

ELC 111-112 ELR 103-203

Note: Courses with (D) designations meet Commonwealth Transfer Compact requirements.

(See "Transfer Compact")

LEARNING COMMUNITIES

For two decades, Holyoke Community College has been helping students integrate their learning through Learning Communities (LCs). At their core, LCs have four essential features: interdisciplinary subject matter, collaborative learning pedagogy, team-teaching, and integrated assessment. They provide an alternative to traditional college general education course offerings by

connecting courses often perceived as unrelated. In an LC a common theme or purpose is used to integrate courses and provide coherence, rather than subject matter alone. LCs strive to build both academic and social communities of learners. In LCs faculty teach together, while students learn cooperatively and collaborate on assignments. By all student, faculty and staff accounts, the Learning Communities Program is one of Holyoke Community College's ongoing success stories. Learning Communities (LCs) help under-prepared students prepare, prepared students to advance, and advanced students to excel, while providing a transformational professional development opportunity for LC faculty.

LIBRARY

The Holyoke Community College Library provides students with the resources to fulfill their classroom assignments and to expand their education beyond the classroom into their daily lives. The research strategies acquired while learning to use the Library effectively will provide students with lifelong learning skills to assist them in finding appropriate information, evaluating it critically, and synthesizing it into knowledge.

Located in the center of the College complex, the Library provides access to 67,000 print books, 27,000 electronic books, 174 print periodicals 32,000 online periodicals, 8,400 audio-visual items (of which 2,200 are in downloadable formats and software), and 7000 streaming educational videos. The reference collection contains a variety of encyclopedias, dictionaries, directories, handbooks, bibliographies, and other reference materials. The on-line catalog and on-line databases, accessible from both in the Library and from remote sites, make HCC Library a true electronic library. Easy remote access to the Library's electronic collection means that the Library is always open when you need it.

Holyoke Community College is a participating member of C/WMARS (Central/Western Massachusetts Automated Resource Sharing network) which augments the resources of the HCC Library by providing on-line access to the collections of over 140 academic and public libraries. Students at HCC may borrow from all C/WMARS libraries by either visiting the libraries themselves or requesting material to be delivered to the HCC Library.

MASSTRANSFER

In June 2008, the Board of Higher Education accepted the Final Report from the Commonwealth Transfer Advisory Group which included a new statewide transfer policy: **MassTransfer**. **MassTransfer** seeks to provide a broad population of students with straight forward and understandable options toward the completion of associate and baccalaureate degrees, clearing the way for student access and student success in Massachusetts' public higher education system.

MassTransfer has two main purposes:

- to provide community college students who complete designated **associate degrees under MassTransfer** with the benefits of the full transfer and applicability of credit, guaranteed admission, and a tuition discount (each benefit based on the student's final grade point average)
- to linked baccalaureate programs; and to provide any student in the Massachusetts public higher education system the intermediate goal of completing a portable transfer block ("**MassTransfer Block**") which satisfies general education/distribution/core requirements across institutions (with the receiving institution able to add no more than six additional credits/two courses).

MassTransfer integrates and replaces the Commonwealth Transfer Compact, Joint Admissions, and the Tuition Advantage Program. The **MassTransfer** policy for community college students who complete designated associate degrees applies to students who matriculate in or after fall 2009 at a Massachusetts community college. The **MassTransfer** policy for any student in the Massachusetts public higher education system who completes the **MassTransfer** Block will apply beginning fall 2010, regardless of initial date of enrollment.

SECTION I: FOR STUDENTS COMPLETING AN ASSOCIATE DEGREE UNDER MASSTRANSFER AT A MASSACHUSETTS COMMUNITY COLLEGE.

A student completing an associate degree program under **MassTransfer** will have graduated with a minimum of 60 credit hours and will have completed the following 34-credit **general education transfer block**, exclusive of developmental coursework.

English Composition/Writing	6 credit hours
Behavioral and Social Sciences	9 credit hours
Humanities and Fine Arts	9 credit hours
Natural or Physical Science	7 credit hours
Mathematics/Quantitative Reasoning	3 credit hours

Each associate degree program under **MassTransfer** is linked to baccalaureate degrees and schools at the Massachusetts state colleges and University of Massachusetts campuses across the Commonwealth. The list of associate degree programs and linked baccalaureate programs under **MassTransfer** will be available at www.mass.edu, as well as on the transfer websites at the individual public higher education institutions.

Benefits

A student completing an associate degree who seeks admission to a linked baccalaureate program under **MassTransfer** will be entitled to the following benefits based upon the final cumulative grade point average at the community college awarding the degree:

- A. A final cumulative grade point average of a 2.0 or higher
 - i. Waives the admissions application fee and essay
 - ii. Guarantees the full transfer of college-level credits, including "D" grades, applied to the degree requirements of the linked baccalaureate degree or school at the state college or University of Massachusetts campus such that the **MassTransfer** student will be required to complete no more credits or courses than a native student with the following stipulations:
 - a. The student changes his or her major.
 - b. If the linked baccalaureate program requires a higher grade point average or specific courses for the major which are required of native students, the **MassTransfer** student must meet these requirements.
 - iii. Satisfies the general education requirements at the receiving institution with the receiving institution able to add no more than six additional credits / two courses in compliance with the New England Association of Schools and Colleges' Standards for Accreditation. This will apply when the receiving institution already places these requirements on its native students and will determine at its discretion which credits, if any, shall be required.
- B. Note: College-level course credits consistent with the standards set forth in the Undergraduate Experience recommendations are included under **MassTransfer**. Credits awarded by the sending institution through CLEP, challenge examinations, and credit for prior learning shall be included when a student qualifies under **MassTransfer**.
- C. A final cumulative grade point average of a 2.5 or higher
 - i. Grants all of the benefits outlined in section 1A.
 - ii. Guarantees admission to the linked baccalaureate degree or school at a Massachusetts state college or University of Massachusetts campus with the following stipulations:
 - a. If the linked baccalaureate program requires a higher grade point average which is required of native students, the **MassTransfer** student must meet this requirement.
 - b. If because of space or fiscal limitations the receiving institution does not admit all qualified applicants to a given major or program, the receiving institution will use the same criteria for **MassTransfer** applicants as it does for its native students.
 - c. Students must be in good academic, fiscal and disciplinary standing with all previous institutions.

- D. A final cumulative grade point average of a 3.0 or higher
 - i. Grants all of the benefits outlined in sections 1A and 1B.
 - ii. Guarantees a tuition waiver equal to 33% of the Massachusetts resident tuition rate at a state college or University campus for two years of undergraduate enrollment with the following requirements:
 - a. Enrollment is continuous at the state college or university campus.
 - b. The student earns a cumulative grade point average of a 3.0 or higher for the first year of enrollment at the state college or University of Massachusetts campus.

Note: For students demonstrating compelling hardships, institutions may exercise professional judgment regarding the above conditions.

SECTION II: FOR STUDENTS COMPLETING THE GENERAL EDUCATION TRANSFER BLOCK AT ANY MASSACHUSETTS HIGHER EDUCATION INSTITUTION WITH A 2.0 OR HIGHER GRADE POINT AVERAGE.

A student completing the **general education transfer block** will have earned the following 34 credit hours outlined below, exclusive of developmental coursework.

English Composition/Writing	6 credit hours
Behavioral and Social Sciences	9 credit hours
Humanities and Fine Arts	9 credit hours
Natural or Physical Science	7 credit hours
Mathematics/Quantitative Reasoning	3 credit hours

Benefits

Students completing the 34-credit **general education transfer block** (exclusive of developmental coursework) with a 2.0 or higher grade point average will be entitled to the following benefit:

Satisfies the general education requirements at the receiving institution with the receiving institution able to add no more than six additional credits / two courses in compliance with the New England Association of Schools and Colleges' Standards for Accreditation. This will apply when the receiving institution already places these requirements on its native students and will determine at its discretion which credits, if any, shall be required. Students enrolled in a specific major or degree program may be required to take additional courses if these courses are specifically required for the major or program and are required of native students. For full details about the **MassTransfer** policy, please see the Transfer Counselor or go to www.mass.edu

ONLINE PORTAL

So that there may be better communication between students, faculty, and administration, all students registered for credit classes are provided a personal, online portal account called "My HCC."

MyHCC is a portal that allows students to access their email, grades, billing, holds and other important information. The college will use MyHCC to communicate with the student body and expects that students will login regularly to check for personal messages and updates from the college. Instructions, including information concerning IDs and passwords for online services, can be found at www.hcc.edu/myhcc.

PLAGIARISM

Plagiarism is a form of theft. It is the stealing of another's ideas, information, creative work, or words and passing them off as one's own. Examples of plagiarism include quoting from a published work without the use of quotation marks and identification of the author, and copying from another student's examination or report or from WEB resources. Students who are accomplices in the act of plagiarism are equally guilty of academic dishonesty, and may be subject to disciplinary action (**see**

the Student Handbook).

PRE-REQUISITE

A requirement that must be completed before some other steps can be taken; for example, a course that must be completed before one can enroll in another course. All course pre-requisites are listed in the **COURSE DESCRIPTIONS** section of this catalog. If none is listed by a course, none exists for it. (See also Co-Requisite)

Students may petition to be excused from course pre-requisites. To do so, they must present an argument justifying their request in writing, and secure the agreement and signature of both the course instructor and the Division Dean or his/her designee. Forms are available in Academic Division offices or the Welcome Center.

PROBATION AND DISMISSAL, ACADEMIC

Academic probation or dismissal for students is determined by the cumulative Grade Point Average and Quality Hours, as follows (**See Grading System**):

Cumulative Grade Point Hours	Cumulative G.P.A. Required:
Below 9	No minimum
9-30	1.75
Above 30	2.0

PROBATION

The first time a student fails to earn the minimum required G.P.A. (Grade Point Average) as listed above, he/she will be placed on Academic Probation.

DISMISSAL

At the end of two semesters of probation, if the cumulative G.P.A. remains below the minimum standard, the student will be dismissed. However, the student will not be dismissed if, during a probationary semester, he/she earns a G.P.A. of 2.0 or better.

GRADUATION

A minimum cumulative G.P.A. of 2.0 is required to graduate in degree and certificate programs.

REGISTRATION

Registration and Schedule Changes using My Online Services

Students enrolled in the current term may schedule and add//drop courses online during the Self-Service registration period. Students may need to obtain an alternate PIN from their advisor and enter that PIN online to access registration. Students not assigned an advisor can obtain their alternate PIN (if needed) in the Advising Center.

ALTERNATE PIN NOTE: Students who have earned 24 (12?) or more HCC credits (excluding transfer) and have a cumulative HCC GPA of 2.5 or higher may schedule, add, and drop courses online without an alternate PIN. For more information, go to MY HCC Online Services during the Priority Registration sign-up period.

Priority Registration

There are two Priority Registration periods for current students: one in March/April (for Fall semester) and in October/November (for Spring semester). Exact dates are listed in the Academic Calendar posted on the College's website.

Students are encouraged to meet with their assigned advisor and pre-register for courses during Priority Registration. HCC provides academic advising to all students. Students can look up their advisor's name and contact information online at www.hcc.edu. Select the link labeled "MY HCC" then click on "My Online Services," or visit the Welcome Center, FR 221. Students not assigned an advisor can meet with an advisor in the Advising Center, FR 273.

SERVICE-LEARNING

Service-Learning is a method of instruction in which students learn by participating in hands-on assignments or projects in the community. The work the students engage in is directly related to the objectives of their class and meets the need of the community organization. It is a great way to gain work experience in your field of study, and to strengthen your resume or transfer application.

The office of Service-Learning (SL) can advise you about courses that offer SL as a requirement or option and make contacts for you with community agencies and organizations. Club members seeking to fulfill their service requirement may contact the coordinator for suggestions on how to meet that obligation. Contact Lisa Mahon at 552-2369 or just drop by Don 357 for more information on service-learning and community-based organizations.

STUDENT AFFAIRS

MISSION STATEMENT

Student Affairs complement the overall institutional mission to promote student success. Its approach rests on a platform of core principles:

To serve students in the pursuit of their educational and career goals by providing:

- Professional excellence
- Friendly, personalized, technology-enhanced service
- Accessible, accurate and timely information
- Student-centered procedures and policies
- Sensitivity to diverse needs and interests

To work collaboratively with Academic Affairs in the support of students in the following areas:

- Educational-vocational preparation
- Cognitive/ intellectual growth
- Social/ interpersonal development
- Character and leadership building
- Physical and emotional well-being

To foster lifelong learning through the development and delivery of strategic programs and services:

- Outreach and access
- Educational Planning
- Personal/ social support
- Co-curricular and multi-cultural activities
- Athletics, health and wellness

TRANSFER AGREEMENT - *See Articulation Agreements*

TRANSFER COMPACT, COMMONWEALTH OF MASSACHUSETTS

As of fall 2009, all students who enroll at Holyoke Community College will follow the **MassTransfer** general education transfer block. The transfer compact will only be for students who enrolled prior to fall 2009 and it has been determined if re-entering Holyoke Community College student will be eligible for Transfer Compact or need to complete **MassTransfer**. Please contact the Coordinator of Transfer Affairs for clarification.

The Commonwealth Transfer Compact is an agreement between the four-year state colleges, universities and community colleges in Massachusetts. The Compact provides that course-work completed to earn an Associate Degree will be transferred as a unit to the transfer institution and applied toward a Baccalaureate Degree, provided a specific core of courses is included, and the student is accepted by the transfer institution.

The Transfer Compact Core of courses for students entering Holyoke Community College is as follows:

English Composition	(Code A)	6 credits
Behavioral and Social Science	(Code B)	9 credits
Humanities and Fine Arts	(Code C)	9 credits
Natural or Physical Science	(Code D)	8 credits
Mathematics	(Code D)	3 credits

Students are required to earn 60 credits exclusive of developmental coursework.

Transfer Compact Core course designations, A, B, C, and D, are included as part of the description of all courses meeting Transfer Compact requirements in the **COURSE DESCRIPTION** section of the College Catalog. A list of courses by designation appears in that section as well. Other information:

1. Students must complete the Associate Degree in order to qualify for Transfer Compact status.
2. All requirements must be met prior to enrollment at the four-year institution
3. Transfer institutions have the right to require a full two years of upper division work for the Baccalaureate Degree and to impose major course requirements.
4. The grade of "D" will be accepted toward the Baccalaureate Degree, but will be credited toward a major only if it is also credited for students who enrolled in the four-year institution as first-year students.
5. Students must achieve a G.P.A. of not less than 2.0 at the Community College awarding the degree.
6. Transfer Compact status does not assure admission to any institution.

(See also UMass/Amherst General Education Requirements, and the COURSE DESCRIPTIONS section.)

TRANSFER CREDIT

The College accepts transfer credit from other regionally accredited institutions of higher learning for courses which may be applied to the student's declared program of study if the courses are similar in content to those offered here. When transfer credit is awarded, the grades earned are not averaged into the student's Holyoke Community College GPA. Credit is granted for courses carrying a grade of C or better, regardless of the cumulative GPA at the previous institution.

The College also grants credit for military courses which meet guidelines issued by the American Council on Education (ACE). For foreign transcripts, the College will provide the student with a list of agencies that evaluate foreign credentials for a fee; the credit award is based on the evaluation which the College receives directly from the agency and also on the applicability of the course work to the student's program.

The limit of transfer credit from all sources, including CLEP, is in accordance with the College's thirty-credit residency requirement. **However, students may request a waiver of this requirement. Waivers are granted on a case-by-case basis by the**

Vice President for Academic Affairs. Waivers are requested by submitting a Request for Exception to Graduation Requirement form to the Office of the Vice President for Academic Affairs.

(See also College Level Entrance Examinations, Transition Programs, Challenge Exams, and Tech Prep)

TRANSFER PROGRAMS

One of Holyoke Community College's primary missions is to provide the first two years of college-level study for students who wish to transfer to a four-year institution to complete a Baccalaureate degree. Many HCC programs are designed for this specific purpose, and most HCC courses are transferable whether or not they are part of such a program.

If the courses to be transferred correlate with Holyoke Community College courses, credit will be granted for a limited number of courses taken in any branch of the military or through non-collegiate-sponsored instruction accredited by the American Council on Education in the lower division Bachelor/Associate Degree category.

Arrangements have been made with a number of four-year institutions for automatic transfer of all of the course work done to earn an Associate degree at HCC (See Transfer Compact). In other cases, students must apply to the college of their choice and arrange for the transfer of specific courses.

(See UMass/Amherst General Education Requirements.)

UMASS/AMHERST GENERAL EDUCATION REQUIREMENTS

The University of Massachusetts at Amherst requires all students to complete a set of general education courses to graduate. These requirements will be waived for students who transfer to the University with an Associate Degree that includes the Transfer Compact Core of courses (See Transfer Compact). However, all students will be required to complete all courses for their major, and students accepted into the College of Arts & Science will be required to complete the foreign language requirement. (See Foreign Language Requirement)

WITHDRAWAL

Students are withdrawn from a course in the following ways:

ADD/DROP

A student may drop a course during the Add/Drop Period (first 4 days of the semester) without being recorded as having been enrolled in that course. Refunds for dropped courses are made in accordance with the College's refund policy.

ADMINISTRATIVE WITHDRAWAL FROM COURSE FOR NON-ATTENDANCE:

Instructors will notify the Registrar of any student on their class list who does not attend the course during the first two weeks. The student will be issued a WX grade and will be considered withdrawn from the course. A student who is issued a WX grade is not eligible for a refund of any part of the cost of the course concerned.

ADMINISTRATIVE WITHDRAWAL FROM COURSE FOR EXCESSIVE ABSENCES:

Instructors may dismiss a student from a class due to excessive absences, issuing an AW grade. AW is not calculated into the GPA and may not be removed by a student's later attempt to withdraw from the course.

COURSE WITHDRAWAL BY STUDENT:

The student must bring to the Welcome Center a completed course withdrawal form. For day courses, the form must include

the course instructor's signature. An instructor must honor a student's request to withdraw from a course (provided no previous WX or AW grade was issued). A student may withdraw from a course through the twelfth week of the semester. The official deadline is posted in the College's Academic Calendar. The withdrawal grade assigned as the student's final grade is "W."

WITHDRAWAL FROM THE COLLEGE:

College withdrawals must occur before the last day of classes. Students taking day classes must meet with a counselor for an exit interview, then bring to the Welcome Center a completed withdrawal form carrying the counselor's signature. In exceptional cases, the exit interview may be conducted by telephone. The date the Registrar receives the completed form becomes the official withdrawal date. A withdrawal grade for each course is determined in accordance with the policy for course withdrawals. AW and WX grades which were previously issued in a course remain on record, even when a student withdraws from the College.

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