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Course Catalog 2011-2013
2011-2013 Catalog

The *University of Rio Grande and Rio Grande Community College Catalog* is published by the Office of Academic Affairs.

A complimentary copy of this catalog is made available in the Admissions Office to each student registered for academic credit.

NOTICE OF NONDISCRIMINATORY POLICY

It is the policy of the University of Rio Grande and Rio Grande Community College not to discriminate on the basis of gender in the educational programs, activities, or employment policies as required by Title IX of the 1972 Education Amendments. Inquiries regarding compliance with Title IX may be directed to the Affirmative Action Office of the University and the Community College, (740) 245-7228, or to the Director of the Office for Civil Rights, Department of Health, Education, and Welfare, Washington, D.C.

Furthermore, the University of Rio Grande and Rio Grande Community College affirm that policies and practices relating to housing, academic and social life, and employment are applied without regard to race, color, gender, religion, disability, age, marital status, national or ethnic origin, socioeconomic status, or political affiliation. Inquiries in this regard should be directed to the President of the University of Rio Grande or Rio Grande Community College.

PROVISIONS OF CATALOG

The provisions of this catalog are not to be regarded as an irrevocable contract between the student and the University of Rio Grande and Rio Grande Community College. A conscious attempt has been made to provide accurate and up-to-date information. The University of Rio Grande and Rio Grande Community College reserves the right to make and designate the effective date of changes in curriculum, course offerings, fees, requirements for graduation, and any other regulations, at the time that such changes are considered to be desirable or necessary. Please visit the Rio Grande website at www.rio.edu for up to date catalog information.

This catalog is effective from fall 2011 through summer 2013.
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August 22, 2011 ......................... Classes Begin
September 5, 2011 ...................... Labor Day
October 14, 2011 ....................... Community Service Day
November 24-25, 2011 ................. Thanksgiving
December 6-9, 2011 .................... Final Exams

Spring 2012
January 6, 2012 ......................... Faculty Development
January 9, 2012 ......................... Classes Begin
January 16, 2012 ....................... Martin Luther King Day
February 20, 2012 .................... Presidents’ Day
March 12-16, 2012 .................... Spring Break
April 30 – May 3, 2012 ............... Final Exams
May 5, 2012 .............................. Commencement
May 8, 2012 .............................. Faculty Development

Summer 2012
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July 5, 2012 .............................. Summer I Ends
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Fall 2012
August 17, 2012 ......................... Faculty Development
August 20, 2012 ......................... Classes Begin
September 3, 2012 .................... Labor Day
October 12, 2012 ...................... Community Service Day
November 22 – 23, 2012 ............ Thanksgiving
December 4-7, 2012 ................... Final Exams

Spring 2013
January 11, 2013 ....................... Faculty Development
January 14, 2013 ....................... Classes Begin
January 21, 2013 ....................... Martin Luther King Day
February 18, 2013 .................... Presidents’ Day
March 18 – 22, 2013 .................. Spring Break
May 6-9, 2013 .......................... Final Exams
May 11, 2013 ............................ Commencement
May 14, 2013 ............................ Faculty Development

Summer 2013
June 3, 2013 ............................ Summer I & 10-week Begins
July 3, 2013 .............................. Summer I Ends
July 8, 2013 .............................. Summer II Begins
August 8, 2013 ......................... Summer II & 10-week Ends
The University of Rio Grande, established in 1876, is an independent four-year, comprehensive university that offers programs ranging from certificates through the master degree level. In the past, many of its graduates entered the teaching profession. Today, many are preparing for business and public service careers, as well as for the teaching profession. During its history, the University of Rio Grande (pronounced Rye-oh) has been at times a denominational college, a two-year college, a self-help student work college, and a four-year liberal arts college.

Rio Grande Community College, established in 1974, offers a wide range of services, including career programs, associate degrees, transfer programs, and continuing education programs. The Community College reinforces the University’s philosophy and history of making meaningful, affordable education and services available to all who can benefit.

The University of Rio Grande and Rio Grande Community College represent a unique marriage between public and private education, between career and liberal arts education, and between younger and older students. The same staff, faculty, and facilities support both the private University and the Community College programs. Students in the Community College programs have the opportunity to enroll in liberal arts courses and programs. Students in liberal arts programs have an opportunity to experience career education courses and programs.

Through a contract between URG and RGCC, Ohio residents in their first two years of college work can take advantage of public community college tuition rates to earn associate degrees in arts or career education. Students have the option of continuing toward a baccalaureate degree at the University of Rio Grande or transferring to another institution to complete a four-year degree.

The University also offers a Master of Education Degree in Classroom Teaching with a concentration in Intervention Specialist and an innovative Master of Business Administration degree in Entrepreneurship.

**Mission Statement**

Rio Grande’s mission is to maintain rigorous standards in its undergraduate, graduate, and adult education programs and to engage students from a wide spectrum of abilities and backgrounds while consistently preparing students for the challenges of living fulfilling lives, reaching career goals, and being responsible citizens in a culturally diverse, global community.

Rio Grande Community College, created in 1974, offers:

- Associate’s degrees for students in professional studies and the liberal arts and sciences, as well as certificates in career and technical areas.
- The first two years of courses for bachelor’s degrees.
- Access to a broad array of courses at an affordable price.
- Developmental courses along with the necessary support to enhance academic skills.
- Appropriate business and industry partnerships and training for economic development in the surrounding four-county community college district.
- Linkages with high schools that promote uninterrupted high school to college articulation.

- Opportunities for community involvement in the decision-making processes.

The University of Rio Grande, founded in 1876, offers:

- Access to a broad array of associate’s, bachelor’s, and master’s degrees.
- An effective balance of career preparation, liberal arts, and practical training in a nurturing environment characterized by a focus on the unique needs of the individual.
- Opportunities for intellectual and personal growth in a close-knit campus community.
- Small business entrepreneurial training and partners with RGCC to enhance economic development opportunities in the region.

Both URG and RGCC are committed to:

- Encouraging the development and enhancement of integrity, morally and ethically responsible behavior, respect for diversity, and service learning among students and employees.
- Nurturing basic professional values such as a hard work ethic, basic honesty, self-discipline, perseverance, interpersonal cooperation, and social responsibility among students and employees.
- Providing equal opportunity for students and employees, whatever their age, gender, religious background, ethnic or cultural heritage.
- Providing opportunities for any student with special needs to receive an education equal to that of any other student.
- Offering courses though distance and distributed learning at the certificate, undergraduate, and graduate levels.
- Providing opportunities for students, employees, and members of the communities served by the institutions to be engaged intellectually, aesthetically, socially, and physically outside the classroom setting.
- Maintaining a highly motivated and academically qualified full-time faculty dedicated to excellence in teaching, advising, and personal attention.

A Rio Grande education instills self-confidence and motivation and prepares students for the challenges of living a fulfilling life, reaching career and pre-professional goals, and being a responsible citizen in a culturally diverse, global community.

**Organization**

Separate Boards of Trustees administer the University of Rio Grande and Rio Grande Community College. Instructional services for both the two-year and four-year programs, as well as the graduate program, are coordinated by the Office of Academic Affairs.

**Campus**

The University and the Community College share the same campus, facilities, and faculty. The 190-acre campus is located in Southeastern Ohio within the village of Rio Grande (Gallia County) near U.S. Route 35.

Campus facilities include eleven classroom buildings, a library, five residence halls, a student center, a dining hall, an art museum, and
an administration building. Special features within these facilities include a 500-seat theatre, an athletic-recreation complex with a fitness center, a food court, large painting-sculpting-ceramics labs, and a fine woodworking shop. Ten of these facilities have been constructed since 1977. Since 1988, four other buildings have been completely renovated, and three more have undergone major renovations in conjunction with additions that doubled the size of the original facilities. All major classrooms and office buildings are wired into a total campus network making electronic mail and Internet access available to all computer lab stations and offices.

Six of the new buildings were funded by the State of Ohio through the Community College, and three were funded with private funds through the University. Two of the new facilities were funded jointly. One of the major renovations and all three renovation-addition projects have been funded through the Community College, while the other two major renovation projects were funded through the University.

The two newest facilities are McKenzie Hall, which opened in 1997, and Bob Evans Farms Hall, which opened in 2000.

In the fall of 2008, Rio Grande opened the new Bernard V. Fultz Center for Higher Education in Pomeroy, Ohio, more commonly referred to as the Meigs Center. The Center was designed to bring higher education closer to the residents of Meigs and surrounding counties. Through a partnership between the Meigs County Community Improvement Corporation, Meigs County Local Schools, and Rio Grande, a $2.3 million, 13,000 square foot educational facility was built. The Meigs Center currently offers day and evening classes for the convenience of local students.

In the fall of 2010, the McArthur Center was opened in the former Vinton County High School building in McArthur, Ohio. Through a partnership with the Vinton County School District, Rio Grande utilizes four classrooms and administrative space in the facility and offers a variety of classes from morning through evening also.

Both facilities offer outstanding opportunities for students to obtain higher education close to home. All students attending these location also have access to facilities and services on the main campus.

Accreditation and Memberships

The University of Rio Grande is accredited by the Higher Learning Commission and is a member of the North Central Association, www.ncahe.org. Since 1916, the University has been authorized by the Department of Education, State of Ohio, to prepare students for teacher certification. The teacher education program is approved by the National Association of State Directors of Teacher Education and Certification. The associate degree Clinical Laboratory Technology Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. The associate degree in Nursing has approval status from the Ohio Board of Nursing. The University of Rio Grande Holzer School of Nursing programs are accredited by the National League for Nursing Accrediting Commission (NLNAC), 3343 Peachtree Rd NE, Suite 500, Atlanta, GA 30326, (404) 975-5000. The baccalaureate degree in Social Work is accredited by the Council on Social Work Education.

The University of Rio Grande is a member of the following organizations: American Association of Colleges; American Association of Colleges for Teacher Education; Ohio Association of Colleges for Teacher Education; Ohio Association of Private Colleges for Teacher Education; American Assembly of Collegiate Schools of Business; Council on Social Work Education; International Assembly of Collegiate Business Education; American Association of Collegiate Registrars and Admissions Officers; Association of Collegiate Business Schools and Programs; National Association of Independent Colleges and Universities; Association of Counselors; American Association of Counseling and Development; American College Health Association; Association of Governing Boards of Universities and Colleges; Association of Performing Arts Presenters; Joint Review Committee on Education in Radiologic Technology; Joint Review Committee on Education in Diagnostic Medical Sonography; National Association for Industrial Technology; National Accrediting Agency for Clinical Laboratory Sciences; National College Placement Association; National Community Education Association; National Association of College and University Business Officers; National Association for Campus Activities; National Association of Intercollegiate Athletics; National Council for Accreditation of Teacher Education; Ohio College Association; National Organization for Associate Degree Nursing; National League of Nursing Councils of Associate Degree Programs and Baccalaureate Degree Programs; Ohio Community College Association; and Society of Manufacturing Engineers.

Endowed Chairs

A college or university improves its mission by being able to attract outstanding persons by having endowed Chairs. In the person’s name, the Chair will make continuous contributions to education. The naming of a Chair is a lasting honor to the selected individual. The University of Rio Grande has three endowed Chairs named in honor of Harland Martin, William A. Lewis, and Morris Haskins.

The Harland Martin Endowed Chair of Business – Mr. Martin, a native of Southeast Ohio, was a respected citizen, farmer, businessman, and entrepreneur.

The Dean Williams A. Lewis Endowed Chair of Psychology – William A. Lewis, a native of Gallia County, was a respected alumnus, faculty member, president, and dean of Rio Grande College.

The Morris E. Haskins Endowed Chair of Business – Mr. Haskins, a respected banker and entrepreneur in Gallia County, served diligently on behalf of the entire community as well as the University.

The Alumni Association

All students of the University of Rio Grande and Rio Grande Community College become members of the Alumni Association automatically and immediately upon their graduation from Rio Grande. Students who have attended Rio Grande and successfully completed academically one quarter or semester of coursework may enter the Association by making this request of the Office of Alumni Relations.

The Association attempts to promote the welfare of the institution, and the perpetuation of friendships and relationships formed among its members, while at school and after graduation. The Association welcomes all graduates, former students, and other friends of the University at its events and functions.
Admission

The Admissions Policy is formulated to implement the philosophy of the University of Rio Grande and Rio Grande Community College, which implies that all who may benefit from a college-level education will be admitted. Admission will be determined without regard to race, color, age, marital status, national or ethnic origin, socioeconomic status, political affiliation, religion, gender, or disability.

Applicants for admission are required to submit a completed application for admission as well as a high school transcript or GED. Applicants interested in applying for admission to Nursing Technology, Education, Radiologic Technology, Diagnostic Medical Sonography, Respiratory Therapy, Medical Laboratory Therapy, or the Honors program must also submit American College Test (ACT) scores. Prior to enrollment, students who have not taken the ACT must have taken placement tests in reading, writing, and mathematics. The Placement Test may be taken in the New Student Advising Office by appointment.

The following academic areas practice selective admission policies and procedures. In addition to the general institutional requirements previously stipulated, the candidate for admission is directed to the Chair or Dean of each program for specific details.

The programs with selective admission requirements and/or procedures are:

- Education
- Honors
- Nursing – Associate and Baccalaureate Degrees
- Social Work
- Radiologic Technology
- Diagnostic Medical Sonography
- Respiratory Therapy
- Medical Laboratory Technology

Ohio residents seeking admission to college for the first time and lower division transfer students with Ohio residency will be granted dual acceptance to the University of Rio Grande and Rio Grande Community College.

All out-of-state applicants and upper division transfer students will be granted an acceptance to the University of Rio Grande.

Upper division or lower division status of transfer students will be determined upon evaluation of transfer credits as submitted on an official transcript.

Applications for admission to Rio Grande should be mailed to the following address:
Office of Admissions
University of Rio Grande/Rio Grande Community College
PO Box 500
Rio Grande OH 45674-0500

Further information can be obtained by contacting Rio Grande at 740-245-5353 or 1-800-282-7201 ext. 7208 (Toll Free in OH, WV, KY, & PA), by e-mail (admissions@rio.edu), or by fax (740-245-7260). Also, an online application for admission is available at www.rio.edu.

ADA Policy

If a student wishes to be identified as having a physical, mental, or learning disability, that may or may not require reasonable accommodation(s), he/she must register with the Office of Accessibility. These registered students should identify themselves to their instructors and provide a written statement from the Accessibility Office that indicates the appropriate accommodations. The process of a student self-proclaiming the need for accommodation should occur as early in the semester as possible. The Office of Accessibility phone is 245-7339 and is located in Rhodes Hall, Room 116, University of Rio Grande.

FERPA Policy

The University of Rio Grande and Rio Grande Community College are committed to fully respecting and protecting the rights of students under the Family Educational Rights and Privacy Act (FERPA). These rights generally include the right to inspect, review and seek amendment to the student’s education records and the right to provide written consent before personally identifiable information from education records is disclosed. Under FERPA, students have the right to file a complaint with the US Department of Education concerning alleged failures to comply with FERPA. Please see the Student Records Confidentiality/Rights Under FERPA section of the Student Handbook for details and more information.

Hocking College Students

Hocking College students wishing to complete a bachelor degree at Rio Grande may be eligible for dual-admission at the time they apply for admission to Hocking College. Please check with the Hocking College Admissions Office for details.

International Students

International students are requested to submit the following:

- A completed application for admission and the $25 (U.S.) nonrefundable application fee,
- A completed college medical physical examination form and completed immunization requirements,
- A transcript of secondary school credits verifying graduation,
- All post-secondary school transcripts (if applicable),
- A recent personal photograph (optional),
- An official statement from a sponsor or bank documenting financial support,
- Test of English as a Foreign Language (TOEFL) with a minimum score of 400 or 97 on the computer exam, and
- Proof of purchase of medical/accident insurance policy from resident country, preferably A.I.U.
International students who are placed in the English as a Second Language (ESL) reading and writing sequence as a result of testing must enroll in ENG 10104 Introduction to Writing upon satisfactory completion of the ESL sequence. In ENG 10104, further testing (usually on the first day of class) will verify placement. As a result of the verification measures and student writing sample, students will either remain in the course or be allowed to select the next course in sequence, ENG 11103 Composition I. Students missing the verification measure because of absence from class must remain in ENG 10104.

International students who are placed in the ESL reading and writing sequence as a result of testing must also enroll in ENG 10204 Reading and Learning Strategies, upon satisfactory completion of the ESL sequence. In ENG 10204, further testing (usually on the first day of class) will verify placement.

As a result of the verification measure, students will either remain in the class or be allowed to select an alternative course. Students missing the verification measure because of absence from class must remain in ENG 10204.

International students exempted from the ESL reading and writing sequence as a result of testing must complete, before enrollment, the normal placement testing for English and a writing sample for placement into the appropriate English composition course and possibly a reading course.

**Transfer Student**

Students who have attended another college can be admitted, providing a transcript of all college or university credits, high school transcript, along with a completed application, is submitted. If approved English and/or mathematics courses have not been completed prior to enrollment to Rio Grande, transfer students must follow the placement procedures as previously described. Students holding a college degree are not required to submit a high school transcript.

**Part-time Special Student**

Applicants wishing to enroll in courses for special interest or personal enrichment may register for classes as a special student. After an accumulation of twelve (12) credit hours, the regular admission process is required. Students who desire to enroll in English 11103 Composition I or Math 14505 Pre-Calculus, 15105 Calculus, or 21404 Introduction to Statistics must complete placement testing prior to enrollment. Special Students are not eligible to receive financial aid.

**Transient Student Policy**

Students in good standing, seeking a degree from Rio Grande who would like to take a course from another institution, may do so by completing the Transient Student Course Approval Form prior to registration at the other institution. Obtained in the Records Office, the Transient Student Course Approval Form must be approved by the Dean of the College where the course resides and returned to the Records Office for filing.

**Senior Citizen/Extended Education Student**

Any student who is 60 years or older and a resident of the State of Ohio may attend Community College classes (100-200 level only) free of tuition charges. The student remains responsible for all other fees and costs.

Persons already having completed a bachelor or higher degree, who desire extended education, may enroll in either Community College classes (100-200 level) or University classes (300-400 level). Fees will be assessed according to the applicable tuition rate schedule.

**Re-admission Student**

Students wishing to re-enroll at Rio Grande after an absence of one or more academic terms (excluding summer sessions) will be required to complete an application for re-admission. This form is available upon request from the Admissions Office. Students applying for re-admission after academic suspension from Rio Grande must also submit a rationale to include evidence of the probability of academic success. Students seeking re-admission to the School of Nursing or any of the Allied Health Programs should contact your particular department for special re-admission provisions.

**Probationary Admission Student**

Students admitted to Rio Grande while on “Academic Probation” at another collegiate institution may be admitted on probation and are directed to the paragraph entitled “Academic Probation and Suspension” in the Catalog. Such students also will comply with the provisions of the policy on “Academic Load” in the Catalog. Students under “Academic Suspension” from another collegiate institution applying for admission to Rio Grande for the academic term immediately following their suspension will not be granted admission. Admission may be granted upon application after the student has fulfilled a one-term suspension period (excluding summer sessions). Such students will be admitted on “Academic Probation” and are directed to the policy provisions regarding “Re-admission” specified in the previous paragraph.

**Post-Secondary Education Option (PSEO) Student (Senate Bill 140)**

Rio Grande accepts eligible students in accordance with the stipulations provided by S.B. 140. Students are screened and admitted in the Fall Semester after completing placement tests and are eligible to participate through high school graduation provided they continue to meet the academic standards of Rio Grande. PSEO students are only permitted to take 100 and 200 level courses. Specific requirements for admission as a PSEO student are available in the admissions office.

**Summer Scholars Program (for high school students grades 9-12)**

The Summer Scholars Program is an opportunity for high school students who are residents of the State of Ohio to enroll in Rio Grande Community College for one or both Summer Sessions tuition free. All State of Ohio high school students who are interested in getting a jump on their college career, earn college credit, and strengthen their academic skills, are eligible. Tuition is paid for you. Students pay a general institutional fee, books, supplies, and course fees (and technology fee if taking 6 hours and over). Students can enroll for up to 15 credit hours throughout both summer terms. Students planning to take math or English courses are required to take a placement test. Students need to stop by the Admissions Office to pick up a Summer Scholars Application prior to registration.

**Honors Program**

Rio Grande offers students of superior academic ability an unusual opportunity to develop their potential for intellectual achievement. The Program is open to students who meet at least two of the following criteria: minimum ACT composite of 25 or 3.5 high school GPA; or 3.5 GPA on a minimum of twelve (12) college credit hours. See also Honors Program in the Academic Programs, Policies, and Services section of the catalog.
Costs and Financial Aid

URG Office of Administrative Services, Allen Hall, PO Box 500, Rio Grande, OH 45674  
740.245.7200 office; email: info@rio.edu

URG Accounting Office, Allen Hall, PO Box 500 F-26, Rio Grande, OH 45674  
740.245.7232 office; email: accountingoffice@rio.edu

URG Office of Financial Aid, Allen Hall, PO Box 500, Rio Grande, OH 45674  
740.245.7218 or 800.282.7201 office; 740.245.7102 fax; email: finaid@rio.edu

RGCC Office of Administrative and Financial Affairs, Allen Hall, PO Box 326, Rio Grande, OH 45674  
740.245.7236 office; email: rgccinformation@rio.edu

Tuition and Fees

The University of Rio Grande Board of Trustees and/or the Rio Grande Community College Board of Trustees reserve(s) the right to make, without prior notice, any fee adjustments that may become necessary.

Tuition and fees are linked at the University of Rio Grande website at: http://www.rio.edu/studentservices/accounting Office/Tuition Cost or Course Fee

Terms of Payment

The payment is due one week prior to the first day of the class. Payment must be received on or before due day to avoid deregistration. Postmarks will not be reviewed.

If you are a participant of third party billing (e.g. BVR, CAA, TAA, VA, WI, Jobs & Family Services or Workforce Development), it is your responsibility to provide documentation to the Accounting Office. You may fax appropriate documentation to the Accounting Office 740-245-7171 on or before the stated due day.

Payment Options

1. **Check** – mail your check for the Balance Due to the address below. Do not send cash.
   
   University of Rio Grande  
   P.O. Box 500 F-26  
   Rio Grande, OH 45674  

   or

   Rio Grande Community College  
   P.O. Box 326  
   Rio Grande, OH 45674

2. **ACH Payment (eCheck)** – makes an electronic check payment by logging into your account at https://hope.rio.edu/student-space/PyByCheck.aspx. Make sure you follow the instructions very carefully and carefully input your bank’s routing number and your account number (checking or savings account).

3. **Credit Card Online** – make a credit card payment by logging into your account at https://hope.rio.edu/student-space/PyByCredit.aspx. VISA, MasterCard, Discover, and American Express are accepted.

4. **In Person** at cashier window, Accounting Office and Community College Office, top floor Allen Hall, with cash, check or credit card.

5. **Monthly Payment Plan** – University of Rio Grande offers a payment plan that allows students to stretch payments through the semester. An enrollment fee is charged for this option. For more information, contact the Accounting Office at 1-800-282-7201, extension 7557 or at the University of Rio Grande website at: http://www.rio.edu/studentservice/Accounting Office/payment Plan

6. **Financial Aid** may be applied to your account if you have qualified for assistance. If financial aid is less than the Balance Due, you must pay the difference. If financial aid is greater than the Balance Due, you will receive a refund. If you are expecting financial aid and your account does not have an award listed, please contact the Financial Aid Office of at 740-245-7218 or http://www.rio.edu/studentservices/page.php?ID=financialaid.

Returned Check Fees

Upon the receipt of a returned check (including eChecks), University of Rio Grande will send the student and/or check owner an email or a letter detailing the reason for return and amount due. Returned check payments must be made with cash, cashier’s check, or money order. A personal check will not be accepted.

Returned checks will be charged a service fee. Tuition checks that are returned at payment deadline will also be charged a late payment fee.

A returned check halt may be placed on the student’s records. The halt cannot be released until payment is made. This halt will affect registration, grades, transcripts, and diplomas from being processed.

Refunds

**Tuition and Course Fees** - A student will receive no refund as a result of any course dropped after the first five business days (seven calendar days) of an academic semester, or the first two calendar days of a summer term.

**Board** - A student withdrawing during an academic semester or summer term for any reason will be refunded a part of the charges for board proportionate to the number of whole weeks of an academic semester or summer term remaining after termination.

**Room and Other Fees** - A student withdrawing during an academic semester or summer term will not receive a refund of charges for room, institutional fee, technology fee, parking fee, insurance or late registration fee, and other fees.

**Advanced Deposit** - Advanced deposits are non-refundable.
Important Drop/Withdraw information

It is your responsibility to drop or withdraw from courses you do not plan to attend. After the drop/add period you will be responsible for all tuition and fees, and add/drop fees. Not reviewing your bill does not eliminate your responsibility to pay. (See also Schedule Changes and Withdrawal Policy in the Academic Programs, Policies, and Services section of this catalog.)

Check your student account anytime by logging into: https://hope.rio.edu/studentspace/signup.aspx

Student ID

When arriving at the Accounting Office, the student will be required to present a picture ID (e.g. student ID or driver’s license). If the student does not have his/her picture ID, service will be denied.

Residency Requirements

General Residency

The following persons shall be classified as residents of the State of Ohio for subsidy and tuition surcharge purposes:

1. A dependent student, at least one of whose parents or legal guardian has been a resident of the State of Ohio for all other legal purposes for twelve consecutive months or more immediately preceding the enrollment of such student in the University.
2. A person who has been a resident of Ohio for the purpose of this rule for at least twelve consecutive months immediately preceding his or her enrollment and who is not receiving, and has not directly or indirectly received in the preceding twelve consecutive months, financial support from persons or entities who are not residents of Ohio.

 Exceptions

Exceptions to the general rule of residency for subsidy and tuition surcharge purposes:

1. A person who is living and is gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who is pursuing a part-time program of instruction in Rio Grande Community College shall be considered a resident of Ohio for these purposes.
2. A person who enters and currently remains upon active duty in the United States military service while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person’s domicile.
3. A person on active duty status in the United States military service who is stationed and resides in Ohio and his/her dependents shall be considered residents of Ohio for these purposes.
4. A person, who is transferred by his employer beyond the territorial limits of the fifty states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes, and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person’s domicile and as long as such person has fulfilled his or her tax liability to the State of Ohio for at least the tax year preceding enrollment.
5. A person, who has been employed as a migrant worker in the State of Ohio and his or her dependents shall be considered residents for these purposes provided such person has worked in Ohio for at least four months during each of the three years preceding the proposed enrollment.
6. Any student who is a qualifying resident of any county of a state in which Rio Grande Community College and the Ohio Board of Regents has entered into a legally binding reciprocity agreement.

Residency Change

1. Students should have a fair and adequate opportunity to present proof of their Ohio residency for purposes of this rule. The University of Rio Grande and Rio Grande Community College may require the submission of affidavits and other documentary evidence, which it may deem necessary to a full and complete determination under this rule.
2. Evidentiary determinations under this rule shall be made by the institution which may require, among other things, the submission of documentation regarding the source of a student’s actual financial support. A Residency Change Application form is available in the Admissions Office.
3. Any reclassification of a person who was once classified as a non-resident for these purposes shall have prospective application only from the date of such reclassification. In order to qualify for in-district fees, a student must be a resident of Gallia, Jackson, Meigs, or Vinton County and meet the same general residency criteria as stated above to determine residency in the State of Ohio.

Financial Aid

The Office of Financial Aid can assist in the process of applying for financial aid. While financial assistance from your employer, federal, state, institutional, and other sources may help to pay a large portion of your tuition and fees, the responsibility for the remaining portion of the unpaid fees remains with the student.

To schedule an appointment with the Financial Aid Office, please call 740.245.7218 or e-mail finaid@rio.edu. The Financial Aid Office is located in Allen Hall, Room B-1.

Financial Aid Available for Qualified Students

There are two types of financial aid:

1. Grants – Credits for tuition and fees that are not required to be repaid, and are generally based on financial need. Financial aid is awarded based on academic merit or scholastic accomplishments of the student and are referred to as scholarships.
2. Loan – Monetary advances that must be repaid with interest over a period of time. Most loans allow students to complete their education before beginning repayment.

Three main sources of financial aid:

1. Federal – Federal financial aid, also known as Federal Title IV Aid, includes Pell Grant, Supplemental Educational Opportunity Grant (SEOG), Perkins Loan, Stafford Loan, and Federal Work Study, Federal SMART Grant, Federal Academic Completive Grant (ACG), Federal TEACH Grant. All of these are available at University of Rio Grande and Rio Grande
Community College. Students must complete a FAFCSA (Free Application for Federal Student Aid) to be eligible for federal aid. Eligibility for federal aid program is determined by the federal government and based on each student’s FAFSA.

2. State – The State of Ohio offers an Ohio College Opportunity Grant (OCOG), which can be applied for all residents of Ohio. The grant is based on need. Students must complete a FAFCSA (Free Application for Federal Student Aid) to be eligible for state aid.

3. Private – Many private and local organizations have grants and scholarships available to students who meet certain criteria. We encourage all students to perform their own scholarship search. The local library is an excellent source of information on scholarships. The Internet is also a good starting place to search for additional funding to help with your educational costs. We recommend the following websites to search for scholarships:

   www.rio.edu
   www.scholarships.com
   www.fastweb.com
   www.scholaraid.com
   www.collegescholarships.com

Please note that financial aid is based on the number of credit hours taken each semester. Failure to enroll in 12 credit hours per semester will result in a reduction in financial aid. Students should contact the Financial Aid Office with any questions regarding changing the number of credits enrolled per semester.

Applying for Financial Aid

Students interested in applying for financial aid must complete the Free Application for Federal Student Aid (FAFSA) each academic year. The FAFSA can be submitted by completing a paper FAFSA, FAFCSA Renewal Application, or through the Internet by using FAFSA on the web (www.fafsa.ed.gov). Students must indicate University of Rio Grande’s federal school code (003116) on the FAFSA to ensure proper disclosure of the students’ FAFSA information to the Financial Aid Office. The FAFSA should be filed as soon as possible after January 1st each year. Rio Grande has a priority filing deadline of March 15th. It is very important to apply as early as possible due to limited amounts of funding for certain federal financial aid. The Supplemental Educational Opportunity Grant (SEOG), Federal Perkins Loan, and Federal Work Study are programs that are awarded on a first-come, first-serve basis to those eligible students.

Awards are made on an annual basis and priority will be given to early applicants. Returning students should complete the FAFSA no later than March 15th of each year. Eligibility for federal, state, and institutional financial aid is determined from the results of the Free Application for Federal Student Aid (FAFSA). The FAFSA is used to determine the family’s ability to meet the student’s cost of education, which is used to determine financial need.

Notification of financial aid eligibility will be made to new students by a mailed Award Letter, and returning students via email. Any student that is interested in obtaining a Federal Stafford Loan or Federal Perkins Loan must also complete a Master Promissory Note (MPN). The MPN is a multi-year promissory note that can be used for an entire collegiate career. This means that once a student completes the MPN, another MPN is not required for borrowing in future years. This process is designed to eliminate paperwork and simplify the process of applying for a Federal Student Loan. Students are asked to complete this process online by going to our website (http://www. rio.edu/admissions/page.php?ID=finaidloans).

Various alternative loan programs are available from private lenders to help students with educational expenses throughout the academic year. Most of these loans are credit based and may require a co-signer depending on credit history. A variety of alternative loans options are available in the Financial Aid Office and on the website (http://www.rio.edu/admissions/page.php?ID=finaidloans). Please contact the Financial Aid Office (phone: 740.245.7218, e-mail: finaid@rio.edu) if you want to apply for an alternative loan or if you require additional information.

Finalized financial aid will be disbursed to the student’s account after the drop/add period each term. Students must have completed and submitted all necessary paperwork required by the Financial Aid Office before financial aid will be credited to the student’s account. Balances owed after financial aid is applied to the student’s account are the responsibility of the student.

Special Circumstances

If a student or family member experiences one or more of the following situations: loss of income due to unemployment, disability, natural disaster, loss or reduction of untaxed income, separation or divorce, death of a parent or spouse, excessive medical or dental expenses paid out of pocket, parents attending college, sibling private school tuition paid, or a one time lump sum; may be eligible to apply for a Special Circumstance. The granting of special circumstance is based solely on the professional judgment of the Financial Aid Office. The Financial Aid Office reserves the right to approve or reject any application for special circumstance. Contact the Financial Aid Office for more information. A change of circumstance may change financial aid eligibility.

Standards of Academic Progress Policy

Federal regulations require the University of Rio Grande and Rio Grande Community College to establish and apply reasonable standards of satisfactory progress for the purpose of the receipt of financial aid. The Higher Education Act. The law requires institutions to develop policies regarding Satisfactory Academic Progress (SAP). Each institution must design criteria, which outlines the definition of student progress towards a degree and the consequences to the student if progress is not achieved. RIO students who wish to be considered for financial aid must maintain satisfactory progress in their selected course of study as set forth in this policy.

Satisfactory Academic Progress Policy

Any student receiving financial assistance who does not meet the satisfactory academic progress requirements during a preliminary review at the end of each semester will receive an email notification of Probation. During the probationary period, the student will continue to receive state and federal forms of financial aid. Institutional financial aid will not be applied while a student is on Financial Aid Probation. If during the second review at the end of the subsequent semester, the student fails to maintain the required standard, an email notification of Suspension will be sent. The student is responsible for ensuring that the GPA and hours-earned data submitted by the Records Office are accurate and complete.
**Standards of Academic Progress**

An undergraduate/graduate student is considered to have made satisfactory academic progress for maintaining financial aid eligibility in a course of study if the following schedule is maintained:

<table>
<thead>
<tr>
<th>Total Credit Hours Attempted</th>
<th>Cumulative GPA Required</th>
<th>Minimum Completion Percentage Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-15</td>
<td>1.50</td>
<td>65%</td>
</tr>
<tr>
<td>16-31</td>
<td>1.80</td>
<td>65%</td>
</tr>
<tr>
<td>32-52</td>
<td>1.90</td>
<td>70%</td>
</tr>
<tr>
<td>53 - Graduation</td>
<td>2.00</td>
<td>70%</td>
</tr>
</tbody>
</table>

Successful completion means a student has received a minimum grade of “D”. Grades of F, I (Incomplete), or W (Withdraw) are not considered completed courses.

**Maximum Time Frame**

A student may receive financial assistance for a certificate or degree program at a maximum of 150% of the required semester hours. Remedial courses will count toward the 150% of the semester hours to complete the program of study (major).

**Change of Program**

Students who change program of study (majors) or enter a new program will be eligible for Financial Aid as long as they have not completed their maximum time-frame.

**Right of Appeal**

If a student has experienced an extenuating circumstance that prevented them from satisfying the requirements of the Standards of Academic Progress (SAP), they may appeal that decision to the Financial Aid Office. The appeal must be submitted in writing to the Director of Financial Aid. The appeal requires details that explain how the extenuating circumstances prevented the student from meeting the SAP requirements. The student must specifically state for which terms and academic years they experienced this extenuating circumstance, not just the past academic year.

*Such circumstances may include serious illness, documented medical condition, death of an immediate family member, call to active military duty, documented learning disability, documented involuntary change of employment, and other extraordinary situations such as natural disasters.*

The student must make sure that date specific supporting documentation from a disinterested third party is attached to the appeal request. Letters from parents and family members are not acceptable; if this is the only information you can provide, you should meet with a Financial Aid Advisor to determine what is acceptable.

This documentation will be maintained in the student’s file. Examples of acceptable documentation include but are not limited to:

1. A letter from a physician or counselor on letterhead paper (not a prescription form).
2. Copy of a death certificate, obituary, or Mass card.
3. Accident reports, police reports, court records, etc.

**NOTE:** Do not submit original documentation as part of this appeal; make sure to provide legible copies.

If the student’s appeal is in response to having attempted excess hours over 150% of your program’s standard hours, the student will need to submit the SAP Appeal for maximum time-frame. Students will need to complete a new appeal each year as long as you are continuing in the same degree/major.

**NOTE:** Classes needed for the current degree plan are the only ones eligible for financial assistance.

If the student is unable to provide the above information you should meet with a Financial Aid Advisor. The advisor will determine whether a requirement may be waived, or determine if additional documentation is required. The Director of Financial Aid and a Financial Aid Advisor will review the appeal. The appeal will be done as expeditiously as possible, but within approximately 15 business days. The results will be emailed via RIO student account. The appeal decision is final and no other appeal process is available.

**Re-establishing Satisfactory Academic Progress**

After financial aid has been suspended, students may re-establish satisfactory academic progress by the following method:

1. Attend classes at their own expense and improve hours and/or semester GPA to meet the required academic standards.
2. Students who comply should submit to the Financial Aid Office a written request asking that their eligibility for financial aid be reinstated.

**Return of Unearned Title IV Funds Policy**

The Higher Education Amendments of 1998 imposed regulations for the University and its students. Effective September 26, 2000, students receiving Federal Title IV aid who completely withdraw from classes, may be required to repay funds to the program(s) from which such funds were received. Title IV aid programs include: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (SEOG), Perkins Loan, Stafford Subsidized, Unsubsidized, and Parent PLUS Loans. Please refer to our website at www.rio.edu/finaid for more information.
Mission Statement

The mission of the Division of Student Services is to enhance each student’s personal growth, decision-making abilities, and career development within a collegial environment.

To better communicate this mission to students and to communicate the appropriate framework of rules, regulations, and policies, the Division is responsible for the annual development and implementation of the Student Handbook. To fulfill its mission, the Division provides:

1. A Student Services Office which creates programs to fulfill the Division’s mission; coordinates, supervises, and evaluates programs; directs communication from the general college community to individual programs; and plans future programs to meet student developmental goals.
2. A health program which emphasizes preventative care and wellness activities through health education services and utilizes resources available on campus and in the community to assist in meeting the individual health needs of each student.
3. A residence hall program which facilitates the student’s growth toward independence within the institution’s general framework and offers academic, personal, and social support from trained paraprofessional and undergraduate staff.
4. A student activities program which encourages the student’s involvement in cultural, intellectual, recreational, and social activities.
5. A student government and a student judicial program which facilitates the development of student decision making and self-responsibility.

To determine the level of success reached in meeting this mission, the Division of Student Services maintains a comprehensive assessment program. Through a variety of processes and procedures, the “value added” to the student is assessed, the analysis of which becomes the improvement agenda for its various departments, programs, and the Division policy recommending body, the Student Development Committee.

Residential Living

All students living in the Residential Communities are provided educational programming to develop their individual independence while living in a social environment. Resident halls at Rio Grande are thought of as a living/learning community. Students share both academic, as well as, social experiences while living in our community of five resident halls. The communities are governed by (undergraduate) Resident Assistants as well as (graduate) Student Life Coordinators who assist in activities, programming, and the daily life of Residential Students.

The five resident communities consist of:
- Boyd Hall – Freshman Male
- Davis Hall – Freshman Female
- Holzer Hall – Upperclassman Co-ed
- Moulton Hall – Honors and Upperclassman Academic
- Wellness – Healthy Lifestyle

The Office of Resident Life is located in the Berry Center at (740) 245.7396.

Campus Government

The Student Senate is the primary student governing body. The president, vice-president, secretary, and senators are elected by the student body. The Senate makes recommendations regarding student needs on campus and participates in campus government through participation on committees.

Student Judiciary

The Student Judiciary is a formal hearing body elected by the students and consists of one chief justice, four associate justices, and two alternate justices. The Judiciary hears appeals resulting from a disciplinary sanction imposed from a violation of the Community Code, as set forth in the Student Handbook.

Student Activities

The Student Activities Calendar is planned as a complement to the classroom educational experience and the goal is to encourage the University and the Community College students to participate in and benefit from social, recreational, and intellectual activities. Student Activities organizes events on campus including (1). Welcome Back (2). Halloween (3). Homecoming and (4). Spring Fling.

All-Greek Council

The All-Greek Council is a co-educational coordinating and governing body composed of representatives from each of the fraternities and sororities.

Health Services

The Office of Health Services, located in the James A. Rhodes Student Center, is directed by a registered nurse. Health Services is open from 8:00 a.m. to 5:00 p.m., each weekday for limited treatment of illnesses and injuries. Students requiring more extensive medical care are referred to specialists at area medical facilities. Students and their families are responsible for the cost of special or extensive medical care. Health Services requires that each student complete a confidential medical history form. Other requirements may include proof of updated immunizations and childhood diseases, as well as a current Tuberculin skin test. Some majors, international students, and those participating in intercollegiate athletics, may be subject to additional medical requirements.


Alcohol and Drug Prevention
The Director of Prevention Services offers free assistance to students who may have a problem with drug and/or alcohol abuse. The Prevention Office is located in Health Services in the James A. Rhodes Student Center.

Insurance
Personal health insurance for health or medical problems, non sports related injuries, dental visits, and eye exams is the responsibility of the student. Insurance policy information is available through Health Services. International students must purchase health insurance through the University.

Accessibility
In accordance with the standards set forth by the Americans with Disabilities Act (ADA), there is assistance available for qualified students with documented disabilities through the Office of Accessibility. To access services including reasonable accommodations, the student must contact the Office of Accessibility. The Office of Accessibility phone is (740) 245-7339 and is located in Rhodes Hall, Room 116.

Counseling
The University and Community College provide referral assistance to community based resources and services for students requesting interpersonal counseling. A professional counselor may also be available on campus to students on an as needed, per request basis, whenever feasible.

Students with personal or emotional issues (family conflicts, relationship issues, stress management, self defeating thoughts or behaviors, etc.) are encouraged to immediately contact the Director of Health Services, at campus extension 7350. The Health Services Office is located in Rhodes Hall.

Confidentiality will be strictly maintained for individuals and groups seeking counseling assistance at all times.

New Student Advising Office, Testing & Career Services
The New Student Advising Office, Testing & Career Services is located in the James A. Rhodes Center and serves as the central advising and scheduling office to freshmen and transfer students who have not yet declared an academic major. A primary goal of the office is to assist students with the declaration of a major, with an emphasis on major declaration by the end of the student’s second semester of enrollment.

The office also serves as a resource for those seeking information and assistance in choosing a career or change in careers. Opportunities for full and part-time employment and internships are available.

Workshops and seminars are held on job preparation, career development, résumé writing, interviewing, and other areas according to the needs of the students. A Career Library is maintained to assist in career choices. Graduate information can be found in the Career Library.

Those students who plan to use the career placement services should register with the office well in advance of their plans to use them.

Various assessments are conducted through this office, which is a test site for the following:

- ACT (American College Testing)
- SAT (Scholastic Achievement Test)
- CLEP (College Level Examination Test)
- COMPASS (for course placement)
- GMAT (Graduate Admission Test)
- PEARSON VUE (certification exams)
- PRAXIS (for teacher licensure)

Other test publications are available upon request.

To contact the New Student Advising Office, Testing & Career Services, call (740) 245-7279.

Motor Vehicles
Students may operate and park a motor vehicle on parking lots provided the vehicle complies with insurance and license requirements in the registering state; the vehicle is registered through the University and displays the appropriate parking permit; and the owner and/or operator observe(s) all published University motor vehicle regulations provided by the Campus Police Department.

Campus Police
The University of Rio Grande Campus Police is organized under chapter 1713.50 of the Ohio Revised Code. Officer(s) are on duty 24 hours a day seven days per week. Campus officers are certified by the Ohio Peace Officer Training Council, are armed, and have the same powers of arrest as a deputy sheriff. Campus Police jurisdiction includes all University grounds and buildings including all streets, roads and highways that border campus property. Other local law enforcement agencies that also have full or partial law enforcement jurisdiction on the University of Rio Grande include the Rio Grande Village Police, Gallia County Sheriff’s Office, and the Ohio State Highway Patrol.

The University of Rio Grande Campus Police is compliant in the federal right to know requirements contained in the Campus Security Act of 1990 and the Jeanne Clery Act of 1998. For additional information about Campus Police log onto the University’s main web site at www.rio.edu and click on the Campus Police tab.

It remains the goal of the Campus Police Department to provide a safe and secure environment that fosters the student learning process and enhances quality of life for all who attend the University of Rio Grande.

For all on campus emergencies including fire, emergency medical, and police dial 911. To contact campus police for non-emergencies call (740) 245-7286.

RioNET
The University and Community College provides every student access to computers, the campus network and the Internet throughout campus via both wired and wireless connections. RioNET user ac-
counts are created immediately after admissions, and enrollment into courses. Use of campus technology is governed by an institutional Acceptable Use Policy. RioNET user accounts require activation by changing default passwords into private secure passwords. Passwords may be changed from any RioNET connected computer or online. RioNET user accounts provide access to student e-mail and several instructional technology services. Specific information on RioNET services are provided at New Student Orientation, Student Success Course training sessions and through online documentation. Printed information is distributed to campus offices including Accounting, Records, Jenkins Center, Campus Police and the Campus Computing & Networking Office in Moulton Hall.

**StudentSpace**

StudentSpace is the facility used to register for classes, find your grades, obtain your bill, and accept financial aid. StudentSpace can be found online at https://hope.rio.edu/studentspace/signup.aspx or by going to www.rio.edu and using the quick links to select StudentSpace. You can log into StudentSpace using your Student ID. Your password will be the last 4 digits of your social security number. Every semester, professors post mid-term and final grades in StudentSpace, enabling students immediate online access to their records.

**Veterans**

Veterans/Reservists enrolling at University of Rio Grande / Rio Grande Community College and planning to apply for Veterans Administration educational benefits must submit a copy of their DD214 Form, Certificate of Release or Discharge from active duty, or DD2384, Notice of Basic Eligibility, and any kicker contracts to the Veterans Certifying Official located in Allen Hall B1. All veterans/reservists are required to complete the necessary Veterans Administration forms to obtain educational benefits and must complete an Intent of Enrollment at the beginning of each semester. Veterans must be enrolled in a degree program in order to receive benefits. Students who have a parent or spouse who is 100% disabled, deceased, or a P.O.W. from a service-connected incident may also be eligible for educational benefits. To check eligibility and obtain related information, students may contact the Veterans Affairs Regional Office by calling the toll-free number (1-888-442-4551) or search the GI Bill web site.

The Veterans Center is located in the basement of Boyd Hall. www.gibill.va.gov.

**Organizations**

*Alpha Lambda Delta* is a National Honor Society designed to encourage superior scholastic achievement among students in their first year at the University or Community College and to assist students in recognizing and developing meaningful goals for their roles in society.

*Chaplaincy* is a volunteer program that seeks to provide an interdenominational outreach to the students and staff at the University and Community College. The Chaplaincy is composed of Pastors from churches located in the surrounding area. The Chaplaincy sponsors several events including panel discussions featuring topics of current interest. For additional information, contact (740) 245-7339.

*Circle K International* is the college level of the Kiwanis Family with three tenets in mind: Service, Leadership and Fellowship. The *Council for Exceptional Children* was established to improve educational outcomes for individuals with exceptionalities.

*Future Educators Organization* is open to all students at the University of Rio Grande who have completed one (1) professional education course. The organization is designed to provide educational supplements for the education major, identify needs for educational licensure, further the concept of excellence in education, and promote a professional attitude among education majors.

*Honors Program* is an organization whose purpose is to develop the academic and social potential of its members.

*Marketing Club* is a student chapter of the American Marketing Association. Designed to organize and keep its members in contact with recent developments and marketing professionals. The chapter assists its members in the preparation of résumés and job searches. Members are involved in attending conferences and actively compete at the national level.

*The Medical Math and Science Club* is an interdisciplinary organization which exists to aid members with developing mathematical skills, to aid members interested in medical school, veterinary school and other professional schools, and to provide a friendly forum for those with interests in mathematics and science. This club is a student-centered organization whose mission is to inform, educate, and prepare students for career opportunities in professional and graduate schools. Additionally, the club is an excellent opportunity to meet individuals who share similar interests, challenges, and goals. Meetings occur twice monthly.

*Phi Alpha Theta* is an honorary chapter designed to further the interest and development of history as a scholarly discipline at the University or Community College and in the local community.

*Phi Theta Kappa* is designed to recognize and encourage scholarship among two-year college students. To achieve this purpose, Phi Theta Kappa shall provide opportunity for the development of leadership and service, for an intellectual climate for exchange of ideas and ideals, for lively fellowship for scholars, and for stimulation of interest in continuing academic excellence. Students must have a 3.5 GPA in a minimum of 12 hours of community college level work and maintain a 3.25 for continued membership.

*Rio Grande Drama Club* is an organization designed to bring students together and perform theatrical productions at the University of Rio Grande. All students will be allowed to join this organization. Not only will this group be open to the students but to the community members and high school students from the surrounding high schools.

*Sigma Tau Delta (Alpha Lambda)* is the international English Honor Society chapter whose purpose is to confer distinction for high achievement in the English language and literature and to promote interest on campus and in the surrounding communities in the discipline of English in all its aspects, including creative and critical writing.

*The Signals*, the student newspaper, is published bi-weekly during the academic year. Students serve as writers, editors, photographers, and in all staff positions on the publication.
Social Fraternities and Sororities – Greek life offers the individual a unique opportunity for personal and interpersonal growth. The Greek system encourages scholastic achievement, good citizenship from its members, and provides opportunities for social growth and leadership in various campus organizations, as well as sponsors many campus, community, and philanthropic service projects. The opportunity to develop lifelong friendships is an added benefit to the Greek members.

The Rio Grande Greek system’s fraternity and sorority chapters are governed by the All Greek Council, an organization composed of representatives from each fraternity and sorority. There are nine Greek members.

The Rio Grande Greek system encourages scholastic achievement, good citizenship from its members, and provides opportunities for social growth and leadership in various campus organizations, as well as sponsors many campus, community, and philanthropic service projects. The opportunity to develop lifelong friendships is an added benefit to the Greek members.

Students in Free Enterprise (SIFE) is an international organization open to all students, regardless of major. SIFE team members teach students (K-12) in area schools, students on campus, and area adults how free market economics positively affect individuals and businesses. The SIFE team competes annually in regional competition, giving a presentation of the projects they completed that year. If successful, they move to national competition. SIFE is beneficial in helping students find employment with some of the nation’s leading corporations. The experience gained from SIFE is not available in classrooms. E-mail: csmith@rio.edu to join today!

Student Chapter of Wildlife Society is a professional organization of wildlife biologists and managers promoting the wise use of wildlife resources and continued educational development of its members.

University Democrats is chartered by the Ohio College Democrats Federation and shall promote the principles, ideals, and precepts of the Democratic Party. It shall abide by the Constitution and By-Laws of the chapter.

University Republicans is chartered by the Ohio College Republicans Federation to promote the principles, ideals, and precepts of the Republican Party, and shall abide by the United States Constitution and By-Laws of the chapter which may be amended from time to time.

Veterans Organization was formed in order to advocate on behalf of student veterans in order to ensure the veteran’s success in higher education as well as ensure and provide for the needs and overall wellness of student veterans.

Other Activities:

Athletics

Men’s intercollegiate competition is available in basketball, baseball, cross-country, track, and soccer. Women’s intercollegiate competition is available in basketball, cross-country, soccer, softball, track, and volleyball. Member: National Association of Intercollegiate Athletics (men and women), and American Mideast Conference (men and women).

Intramurals

Intramural programs, such as touch football, basketball, volleyball, sand volleyball, softball, racquetball, paintball, and a variety of board and Internet competitions, are organized for student participation. Flexibility is incorporated into the program, permitting participation of students with interests extending beyond the normal range of athletic offerings.

Fine and Performing Arts

Masterworks Chorale brings together interested students and community singers from a five-county surrounding area. This chorus of 60-80 persons is open to anyone with a desire to sing, no audition required, for credit or non-credit. At least two concerts of exemplary choral music are performed each year, often with orchestral accompaniment. Sometimes additional performances are scheduled in nearby cities.

The Grande Chorale is a 12-16 voice vocal jazz/chamber choir with instrumental accompaniment. All interested students are encouraged to audition the first week of classes in the fall semester. Grande Chorale sings at many university events and for civic and social organizations, schools, senior citizen centers, and churches. They also tour extensively throughout Ohio, the tri-state area, and the entire east coast from New Jersey to Florida. Grande Chorale has performed on a Caribbean cruise ship to Cozumel, Mexico. It has also performed in England, Scotland, Wales, and in New Orleans and the Gulf Coast.

Symphonic Band also brings together students and instrumentalists from the community. It performs at several regular concerts each year, in addition to special university and community events. Membership is open to all, without an audition.

Pep Band performs at athletic events and other special occasions. Membership is open to all interested students, and no audition is necessary.

Jazz Ensemble is an instrumental group, which performs all kinds of jazz music and emphasizes improvisation. The pieces are often original compositions by members of the group. The Ensemble performs regularly on- and off-campus. An audition is required.

In addition, various faiths are encouraged to form religious groups on the campus and to sponsor religious activities for their members.
Mission Statement

The mission of the Office of Academic Affairs is to create and support an environment that advances the institutional mission of providing educational, personal growth, and economic development opportunities. Academic Affairs is committed to:

- Encouraging the development and enhancement of integrity, morally and ethically responsible behavior, respect for diversity, and service learning among students and employees.
- Nurturing basic professional values such as a hard work ethic, basic honesty, self-discipline, perseverance, interpersonal cooperation, and social responsibility among students and employees.
- Providing equal opportunity for students and employees, whatever their age, gender, religious background, ethnic or cultural heritage.
- Providing opportunities for any student with special needs to receive an education equal to that of any other student.
- Offering courses though distance learning at the certificate, undergraduate, and graduate levels.
- Providing opportunities for students, employees, and members of the communities served by the institutions to be engaged intellectually, aesthetically, socially, and physically outside the classroom setting.
- Maintaining a highly motivated and academically qualified faculty dedicated to excellence in teaching, advising, and personal attention.

Academic policies for the University of Rio Grande and Rio Grande Community College are formulated by the Academic Affairs Committee and recommended by the Committee to the URG and/or RGCC Board of Trustees for approval. The Committee also serves as the appellate body for exception to academic policy.

Academic Programs

College of Arts and Sciences

The mission of the College of Arts and Sciences is to provide liberal arts courses in the areas of humanities and social sciences, specific competencies and skills related to mathematics and sciences, as well as offering various career programs related to the disciplines within each School. The three schools within the College of Arts & Sciences are: School of Fine Arts, School of Liberal Studies, and the School of Sciences. In accordance with the mission statement, the College is responsible for offering the majority of the General Education Program’s required courses, many included in the Ohio Transfer Module. These courses provide students with a coherent academic foundation, equipping them with knowledge, skills, and competencies needed for success in a rapidly changing world.

A broad range of degree options are obtainable from each of these Schools. Both baccalaureate and associate degrees exist, along with a wealth of minors and certificate programs.

School of Fine Arts

General Fine Arts – BFA (2D, 3D, Visual Art, Graphic Design), AA, Minor
Visual Arts Education: Multi-Age
(see degree requirements listed under Education) – BS
Music – BA Comprehensive, Minor
Music Business – BA Comprehensive
Music Education: Multi Age
(see also degree requirements listed under Education) – BS

School of Liberal Studies

Behavioral and Social Sciences – BS (depending on concentrations)
English – BA, Major, Minor
Philosophy – Minor
Hispanic Studies/Spanish – BA, Major
Spanish – Minor
Anthropology – Minor
Communication – BS Comprehensive, AA
History – BA, BS, AA, Minor
Political Science – AA, Minor

School of Sciences

Biology – BS, AS, Minor
Integrated Life Science Education Adolescent to Young Adult
(see degree requirements listed under Education) – BS
Chemistry – BS, AS, Minor
Physics – Minor
Computer Science – BS, Minor
Information Technology: Programming and Software Development – AAS
Environmental Science – BS Comprehensive, Minor
Wildlife and Fish Conservation and Management
(Degree from URG based on a collaborative effort between Hocking College & URG) – BS
General Science – Minor
Science Education: Middle Childhood Science Concentration
(see degree requirements listed under Education) – BS
Mathematics – BS, AS, Minor
Integrated Mathematics Education: Adolescent to Young Adult
(see degree requirements listed under Education) – BS
Middle Childhood Mathematics Concentration
(see degree requirements listed under Education) – BS
Integrated Physical Science Education: Adolescent to Young Adult
(see degree requirements listed under Education) – BS

College of Health and Behavioral Sciences

Holzer School of Nursing

RN-BSN Program – BS
Nursing Technology – AAS
School of Allied Health

Diagnostic Medical Sonography – BS, AAS
(General or Cardiovascular)
Health Care Administration – BS, Minor
Office Technology (3 options): Administrative Office Assistant,
Legal Office Assistant, or Medical Office Assistant – AAB
Medical Transcriptionist – Certificate
Word Processing – Certificate
Pharmacy Technician – Certificate
Radiologic Technology – AAS
Respiratory Therapy – AAS

School of Behavioral Sciences

Behavioral and Social Sciences – BS (depending on concentrations)
Integrated Social Studies: AYA
(see requirements listed under Education) – BS
Middle Childhood: Social Studies Concentration
(see degree requirements listed under Education) – BS
Psychology – BS, AA, Minor
Social Work – BSW
Social Services – AA
Sociology – AA, Minor

College of Professional and Applied Studies

The College of Professional and Applied Studies strives to prepare students for full and productive lives. The College of Professional and Applied Studies provides its students with a knowledge base for their academic programs, technologies, skills for intellectual problem solving and critical thinking, and a disposition to accept the need for life-long learning.

The College of Professional and Applied Studies consists of three academic schools: the Evans School of Business, the Bunce School of Education, and the School of Engineering Technologies. Through these schools, the College offers programs and activities for preparing individuals for a variety of positions in schools, industry, and business. The College offers additional services to individuals who are seeking re-certification, renewal of teaching licenses, course enrichments, programs for mid-career changes, or just enrichment of the mind.

Emerson E. Evans School of Business

Accounting -- BS Comprehensive, AAB
Business Management – BS Comprehensive, AAB, Minor
Small Business Management – Certificate
Financial Economics – Minor
Information Technology – BS Comprehensive, AAB, Minor, Certificate
Database Technology – Certificate
Marketing – BS Comprehensive, Minor, Certificate

Bunce School of Education

Intervention Specialist: Mild/Moderate – MEd
Intervention Specialist: Early Childhood -- MEd
licensure areas of: Early Childhood, Middle Childhood (Science, Math, Language Arts and Social Studies), Adolescent to Young Adult (Social Studies, Language Arts, Math, Life Science and Physical Science), Multi-Age (Physical Education, Music and Visual Arts), and Intervention Specialist: Mild/Moderate – BS
Sports and Exercise Studies – BS
Physical Education, AA,
Pre-Kindergarten Two-Year Licensure -- AAS
Career-Technical Teacher Licensure Program – AAS
Health - Minor

School of Engineering Technologies

Electronic Technology – BTS, AAS
Fine Woodworking Technology – AAS, Certificate
Industrial Technology – BSIT
TS, AAS
Information Technology: Network Systems – BTS, AAS
Manufacturing – BTS, AAS, Certificate
Plant Maintenance -- BTS, AAS, Certificate
Power Plant Mechanical Maintenance – ATS
Technical Studies -- BTS
Welding – Certificate

Definitions

- Individualized Majors and Minors: Unique degree programs for those students whose plans and needs differ from all established degree program. Programs are individually designed through existing coursework.
- Comprehensive: B.S. or B.A. major requiring no minor field of concentration
- Minor: Second concentration required for most B.S. degrees
- Licensure: Licensed teaching areas pre-school through grade 12
- Certification: Academic and non-academic recognition for completing a prescribed group of courses in a specific discipline such as Information Technology or Fine Woodworking

Common Abbreviations:

A.A.: Associate of Arts Degree
A.S.: Associate of Science
A.A.S.: Associate of Applied Science Degree
A.A.B.: Associate of Applied Business Degree
A.T.S.: Associate of Technical Study Degree
B.A.: Bachelor of Arts Degree
B.S.: Bachelor of Science Degree
B.S.I.T.: Bachelor of Science Degree in Industrial Technology Degree (2+2 Program)
B.S.N.: Bachelor of Science in Nursing Degree for Registered Nurses (R.N. – B.S.N. Program, 2+2 program)
B.S.W.: Bachelor of Social Work Degree
B.F.A.: Bachelor of Fine Arts
B.T.S.: Bachelor of Technical Studies
M.B.A.: Master of Business Administration
M.Ed.: Master of Education Degree

The following letter-code abbreviations for division disciplines are used in the degree outlines, course descriptions, and throughout the Catalog:

ACC Accounting
AHC Allied Health Careers
ATH Anthropology
ART Art
Grande Community College seek to nurture a high standard of
educational institutions, the University of Rio Grande and Rio
Grande Community College seek to nurture a high standard of
academic honesty and integrity in students, faculty, and staff. All
persons are expected to present and represent their own original
work and to fully and properly credit sources of information used in
the preparation of their own original work. Any person committing
an act of plagiarism, cheating, attendance fraud, or other form of aca-
demic dishonesty is subject to the fullest measure of consequences,
including course failure and suspension. Students caught committing
an act of academic dishonesty will receive an automatic failing grade
for the course and will not be allowed to drop that course. Repeated
violations will subject the student to automatic academic suspen-
sion with failing grades for not less than one academic year. Failing
grades assigned because of academic dishonesty will not be eligible
for forgiveness under the Academic Policy.

When a faculty member believes that a student has committed a
violation of the academic integrity policy, that faculty member will
immediately forward all evidence and a written statement to the
academic dean of the college in which the course is offered. Within
five (5) regular academic days of receiving the written statement
from the faculty member, the dean will attempt to meet separately
with both the faculty member and the student. If the academic dean
decides that the charges against the student are not adequately sup-
ported, then the dean shall so notify both the faculty member and
the student in writing. If the academic dean decides that the charges
against the student are supported, then the dean shall so notify both
the student and the instructor in writing. If either the student or the
faculty member is not satisfied with the dean’s decision, then within
five (5) regular academic calendar days of the dean’s decision, the
student or the faculty member may appeal the dean’s decision to the
Vice President for Academic Affairs, and request the Vice President
for Academic Affairs to convene an Academic Integrity Panel.

A. The Academic Integrity Panel will consist of voting mem-
bers as follows: one (1) faculty member from each School,
elected to the current Academic Affairs Committee, the
Vice President of the Student Senate or an elected delegate,
and a justice of the senate judiciary. Both parties shall be
informed of the makeup of the panel no later than five (5)
regular academic calendar days before the hearing. If either
party feels that a particular School’s representative may be
biased, then he/she may ask, by two (2) regular academic
calendar days before the hearing, that the School’s other
representative be used instead. If both parties contest both
of the School’s representatives, then the Vice President for
Academic Affairs shall choose another representative from
the School. The chair will only vote in the event of a tie.

B. The Academic Integrity Panel must meet within ten (10)
regular academic calendar days of the request.

C. All documentation and records of previous meetings will
be provided in advance to the Academic Integrity Panel.

D. The student and instructor of record may be present to
present their cases.

E. The Academic Integrity Panel shall issue a written
decision within ten (10) regular academic calendar days
of the meeting, with copies sent to both the student and
the instructor.

F. A copy of the panel’s decision will be placed in the stu-
dent’s file in the Records Office.

Academic Policies

Statement of Academic Integrity

As educational institutions, the University of Rio Grande and Rio
Grande Community College seek to nurture a high standard of
academic integrity in students, faculty, and staff. All

Advising

Each entering student is assigned to an academic advisor who pro-
vides assistance in preparing semester class schedules appropriate
to the student’s declared program. Each student who has declared
a major, a minor, or has indicated a career preference on the ACT,
will be assigned to a faculty member for advising purposes in the school of his or her declared educational or career objective. All other students will be assigned to the New Student Advising Office where assistance in scheduling courses and making decisions about a major is provided. Upon selecting a major, or when changing a major, students must complete a Change of Major Form, available from the school secretary or Records Office then returned to the Records Office.

Students entering their planned year of graduation (with a minimum of 32 hours for Associate Programs, or with a minimum of 93 hours for Baccalaureate Programs) should seek an official evaluation of credit from the Records Office to be sure all requirements will be completed in time to meet the student’s planned date of graduation. Interim evaluations should be developed by the student with the assistance of the Faculty Advisor. Completion of degree requirements is the responsibility of the student.

**Academic Load**

Students should progress toward program completion at a rate commensurate with ability. Entering students with exceptionally high credentials may petition to exceed the semester hour limit (18 hours).

An average semester course load of sixteen (16) completed credit hours generally will enable a student to complete a program as scheduled. Students who have changed programs or who are seeking additional certifications or programs may require longer than average time. Students who have completed twelve (12) hours the previous semester may enroll for a credit load based on their cumulative GPA (GPA) in the following schedule:

- A. Up to and including 24 semester hours with a cumulative GPA above 3.00.
- B. Up to and including 21 semester hours with a cumulative GPA above 2.50.
- C. Up to and including 18 semester hours with a cumulative GPA above 2.00.
- D. Up to and including 16 semester hours with a cumulative GPA below 2.00.
- E. Students above a 2.00 cumulative GPA may enroll in up to 9 semester hours in any summer term. Entering students are also limited to 9 semester hours.

NOTE: Exceptions to the above requirements must be approved by the student’s advisor and appropriate Dean.

**Academic Credit**

**Credit on Transfer**

The student must transfer all work, except failures, applied toward General Education requirements appearing on a transcript from a recognized institution. Transfer work in the area of the major or minor program or teacher education with a grade of “D” can be transferred only with the approval of the particular department chairperson. However, the grades, as recorded on those transcripts, are transferred and included in the student’s GPA. The student must finalize transfer credit prior to the end of the first term of enrollment at the University of Rio Grande and Rio Grande Community College. A student would be exempted from taking the LA 10101 Freshman Success class with 20 earned semester hours and 2.0 GPA from another institution.

**Credit from Degree Granting Institutions**

Transfer Credit Practices, published by the American Association of Collegiate Registrars and Admissions Officers, will be used as a guide in the evaluation of transfer credit from degree granting institutions.

**Credit from an Associate Degree**

Persons holding an associate degree from a regionally accredited institution must transfer their total work. Such students would be required to complete all requirements of the program for which they register. In some instances, the time to complete a program may exceed normal time expectations depending upon the relationship of the selected program with the earned associate degree.

**Credit from Military Service**

Four semester hours of physical education credit will be recorded based on validation (DD214) of regular active duty military service of at least 181 consecutive days. For veterans having qualified at some time for VA educational benefits, such credit will constitute the minimum physical education requirements for activity courses. Also, credit may be awarded as a result of military training programs and will be awarded on the basis of the recommendations provided by the American Council on Education. For students qualified for VA educational benefits, all applicable military credit will be applied to the University of Rio Grande and Rio Grande Community College transcript. VA students must finalize credit during the first thirty (30) days of enrollment.

**Credit from External Testing Programs**

Credit is awarded for achievement of certain minimum scores on the College Level Examination Program. Licensed Practical Nurses applying for the Advanced Placement Track Program are required to take the HESI SP PN-ADN and for admission into the traditional ADN Program, the HESI A2 is required.

**Life Experience Credit**

The University and Community College acknowledge the value of experiential learning in many areas. Learning from experience, whether from university-sponsored experiences or work experiences outside the classroom, can be a means of learning.

In order to provide the highest quality, the Prior Learning Assessment Program is based on the CAEL (Council for Adult & Experiential Learning) Standards for Assessing Learning.

Please contact the Admissions Office at 740/245-7208 for further information.

**Advanced Placement Credit Award**

The State of Ohio, working through the University System of Ohio, has initiated policies to facilitate the ease of transition from high school to college as well as between and among Ohio’s Public colleges and universities.

Beginning the fall term 2009:

1. Students obtaining an Advanced Placement (AP) exam score of 3 or above will be awarded the aligned course(s) and credits for the AP exam area(s) successfully completed.
2. General Education courses and credits received will be applied towards graduation and will satisfy a general education requirement if the course(s) to which the AP area is equivalent fulfills a requirement.

3. If an equivalent course is not available for the AP exam area completed, elective or area credit will be awarded in the appropriate academic discipline and will be applied towards graduation where such elective credit options exist within the academic major.

4. Additional courses or credits may be available when a score of 4 or 5 is obtained. Award of credit for higher score values varies depending on the institution and academic discipline.

5. In academic disciplines containing highly dependent sequences (Sciences, Technology, Engineering and Mathematics –STEM) students are strongly advised to confer with the college/university advising staff to ensure they have the appropriate foundation to be successful in advanced coursework within the sequence.

**Proficiency Credit by Examination**

A formally admitted student may request a test for proficiency credit for courses required in the student’s program but representing some duplication of the student’s previous experiences. Application forms are available in the Academic Affairs Office. The application must be presented for action to the appropriate Dean of the College outlining the student’s previous experiences that provide the student with competencies related to the course. Courses successfully completed by examination will receive a grade of “K.” An examination fee and a credit recording fee are required.

**Vocational Articulation Credit**

The School of Engineering Technologies may award credit for certain foundation courses required in its technology programs to students graduating from any Ohio high school. Some of the basic skills required in various technologies can be learned effectively in high school, and where the student can present proper evidence that such has occurred, the University may award recognition credit and not require the work to be repeated. Typical skill areas that may be considered are typing, machine shop, drafting, and welding. The credit awards are not automatic, but must be requested by the student. The student must also arrange for his/her high school to verify the skill proficiency, and it is recommended that this be done immediately after graduation from high school. The student should request details of the requirements and proper procedure for obtaining credit from the University or the School of Engineering Technologies. Such credit will be recorded with a grade of “K.”

**Foreign Language Transfer Credit**

To receive credits in a foreign language from an institution other than the University of Rio Grande or Rio Grande Community College, a student may transfer credits at the appropriate level or validate his/her level of proficiency by passing a nationally recognized examination under the “Proficiency Credit” Policy, as outlined above. Under certain circumstances, students may be required to complete a course selected from SPA 23803/33803 or SPA 38801-03. Native speakers of other languages may receive credit for a foreign language by demonstrating the equivalent level of proficiency in English.

**Individualized Degree Program**

An Individualized Degree Program is available for students whose plans and needs appear to differ from all established degree programs. The student must be able to justify to the Office of the Provost that the need for such a program exists. Application forms are available in the Office of the Provost. The Dean of the College where the major is housed appoints a faculty committee who submits it to the Academic Affairs Committee for approval. After a program is approved, the student must complete at least fifteen (15) hours for the Associate Degree and thirty (30) hours for the Bachelor Degree, without exemption. Credit hours completed during the semester the application is approved will count toward the completion of the subsequent (15 or 30 credit hours) coursework. Upon completion of the approved program, the student is eligible for graduation. The designation of “Individualized Degree” will be noted on the student’s transcript. The title of this degree may not duplicate an existing major.

**Attendance Policy**

Students are expected to attend classes and are accountable for work missed as a result of absence from class for any reason. Failure to attend classes may result in a loss of financial aid funding.

A class attendance policy is the prerogative of each instructor in each class. The instructor should make known the class attendance policy and course expectations at the beginning of each course. Meeting expectations becomes the individual responsibility of each student.

**Excused Absence Policy**

The University considers certain class absences to be officially excused. Excused absences are given for official University-sponsored activities which may include: class field trips, athletic and academic competitions, concert performances, conference attendance, and guest presentations. It is the student’s responsibility to inform his/her instructor prior to the event that he/she is taking the excused absence.

Rehearsals, practices, intramural events, and other personal/social activities are not included as excused absences.

Personal or family illness and emergencies must be presented separately to each instructor.

An excused absence does not excuse the student from learning course material, from submitting required assignments on time, or from fulfilling other course requirements.

Normally, students will not be penalized for excused absences and will be allowed to make up any missed quizzes or tests. However, the specific nature of some classes or labs may make attendance and active student participation an absolute requirement. Examples include:

- Classes for which a state or accrediting agency requires a minimum number of hours of supervised instruction.
- Seminars with frequent student discussions.
- Labs with specific procedures or experiments that can not be made up.

The student with too many excused absences from this type of class may need to withdraw and retake the course at a later time.

A student who believes that his or her rights under this policy have been violated may appeal through the University Academic Grievance process.
Forgiveness Policy

Any student who has been out of college for at least two academic years may petition the Registrar to have certain courses and their grades disregarded. To disregard means that the designated grades and credits earned will be omitted from the GPA calculation, but the courses will remain on the transcript. The student has the right to select the course(s) to be disregarded. If a course required for a particular program has been disregarded through this policy, the student must repeat the course.

The student will be permitted to use the Forgiveness Policy only once. The new GPA will be used for determining eligibility and/or probation for acceptance into a program and for further calculations of the student’s GPA. Implementation of the policy:

A. The student must be currently enrolled at the University of Rio Grande.
B. The student must have completed at least twelve (12) hours of coursework toward a declared major since returning to the University and must be in good standing with a minimum 2.5 GPA.
C. This policy is applicable only for credit earned at the University of Rio Grande.
D. A course in which a student has received a failing grade because of an act of academic dishonesty is not eligible for forgiveness.
E. A notification of the application of this policy will be noted on the student’s transcript.

Grading Policy

The student assumes responsibility for the course syllabus within the term he or she is enrolled. It is the professional responsibility of the faculty to evaluate achievement and assign grades. No other than the faculty member responsible for the course taught may assign or change a grade.

Many courses are graded on an A, B, C, D, F basis. Some courses are also graded on an S, U basis. A temporary grade of I (incomplete) may be assigned, at the discretion of the instructor, when a student has not completed all requirements for a course at the end of the grade period.

A temporary grade of I (incomplete) assigned to a required course in the nursing program must be removed within the first week of the following semester in order for the nursing student to continue enrollment in the School of Nursing.

Any extenuating circumstance which precludes a student from completing the course must be documented in writing to the faculty member by the student. If the course is not completed by the end of the following term, excluding the summer term, the I grade will revert to an F grade. A one term extension can be granted if the student files a request (request forms can be obtained from the Records Office) with the faculty member and the faculty member signs and submits it to the Records Office. Any additional extension must be approved by the Provost. Special requests and appeals pertaining to incomplete grades may be made to the Academic Affairs Committee.

No grade may be changed by a faculty member after it has been submitted to the Records Office, unless he or she can demonstrate a grading error. The faculty member must file a form, available from the Records Office, giving the basis for the error and assign the new grade. The Records Office does not routinely notify students of grade changes.

A student wishing to take a credit course with the S or U option must make the decision with the professor in writing the first five (5) business days of the term in which the course is taken. The grade of S or U is reserved for elective courses, HPE 10101, and the activity courses. An application form, available from the Records Office, must be completed by the student and returned, and will be on file in the Records Office so that the S or U notation is identified on the 15th day roster.

All grades awarded are recorded on the student’s permanent academic record. Grades of S, I, K, AU NG, W, and NW are not calculated in GPAs (GPA). The GPA for each semester is computed on all other grades received during a semester.

The cumulative GPA is based on all grades recorded, except as follows: for courses that are repeated the most recent grade will be used to compute the cumulative GPA. If there is a question concerning a repeated transferred course grade, the course must be an equivalent course that must meet the approval of the Dean of the College from where the course originated. Courses that are duplicated during the repeat process can be applied toward graduation requirements only once.

<table>
<thead>
<tr>
<th>Grade Description</th>
<th>Point Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
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<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
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<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
<tr>
<td>S</td>
<td>0.0</td>
</tr>
<tr>
<td>Satisfactory; credit</td>
<td>0.0</td>
</tr>
<tr>
<td>U</td>
<td>0.0</td>
</tr>
<tr>
<td>Unsatisfactory; no credit</td>
<td>0.0</td>
</tr>
<tr>
<td>I</td>
<td>0.0</td>
</tr>
<tr>
<td>Incomplete</td>
<td>0.0</td>
</tr>
<tr>
<td>K</td>
<td>0.0</td>
</tr>
<tr>
<td>Credit by Proficiency Exam, Life Experience, External Testing, Transfer, Vocational Articulation, Advanced Standing</td>
<td>0.0</td>
</tr>
<tr>
<td>AU</td>
<td>0.0</td>
</tr>
<tr>
<td>NG</td>
<td>0.0</td>
</tr>
<tr>
<td>No grade (assigned by Registrar)</td>
<td>0.0</td>
</tr>
<tr>
<td>W</td>
<td>0.0</td>
</tr>
<tr>
<td>Withdrawal</td>
<td>0.0</td>
</tr>
<tr>
<td>NF</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Academic Probation and Suspension

Academic probation is determined by comparing the student’s cumulative GPA with the total cumulative hours. Satisfactory progress is maintained by meeting or exceeding the levels indicated in the following table:

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Cum. GPA</td>
<td>1.50</td>
<td>1.8</td>
<td>1.90</td>
<td>2.00</td>
</tr>
</tbody>
</table>

Students not meeting or exceeding these standards will be placed on “Academic Probation.” Students placed on “Academic Probation”
are subject to “Academic Suspension” at the end of their next term of attendance. A student may be removed from probation only by meeting or exceeding the appropriate cumulative GPA indicated in the standards above. A student will be continued on probation by maintaining a GPA of at least 2.25; the student will continue on probation until the cumulative GPA reaches the appropriate level for the cumulative hours as shown in the table above.

Students on “Academic Probation” remove themselves from that category by meeting or exceeding the appropriate GPA standards on the table above. Students on “Academic Probation” not demonstrating academic progress are subject to “Academic Suspension” and upon suspension are not eligible for re-admission until the lapse of at least one 15-week semester, excluding summer semesters. Students seeking re-admission to the University and the Community College after “Academic Suspension” must submit a rationale in support of their application. Such rationale should include evidence of the probability of a successful academic program. If re-admission is granted, students are re-admitted on “Academic Probation” and must meet the appropriate standards above. “Academic Suspension” and “Academic Probation” are academic actions permanently recorded on the student’s record.

Students placed on “Academic Suspension” for the first time have the right of appeal. Students must complete the application form for student appeal of “Academic Suspension.” The completed form must be received by the Dean of the College in which the student majors by 10:00 a.m. on the last day of registration prior to classes beginning following the term of suspension for fall semester and by the end of the third week following the close of the spring semester. Suspensions rescinded are so noted on the student’s permanent record.

A student who has successfully appealed an academic suspension will automatically be suspended with no appeal if a semester GPA of 2.25 is not achieved in the semester for which academic suspension was rescinded.

Whether or not a student appeals his/her first suspension, the second suspension cannot be appealed. Academic actions are not taken in summer sessions.

Course by Arrangement

A student may petition for a course by arrangement. The application form is available in the Academic Affairs Office. A course by arrangement may be approved only if the course requested in not included in the regular semester course offerings, and only for a sound and sufficient reason. A course by arrangement is not a substitute for attending the course at its regularly scheduled time or solely as a convenience to the student. An additional fee is charged.

Class Standing

Generally, a student will be classified on the following basis: (Some associate degrees require more than 64 semester hours, but the student shall still be classified as a sophomore while pursuing the associate degree.)

Freshman ....................................................0 through 30 credit hours
Sophomore (see 64-hour rule below) ...31 through 60 credit hours
Junior ..........................................................61 through 90 credit hours
Senior ..........................................................91 credit hours and above

64-Hour Rule

Students are eligible for Community College rates while pursuing Associate of Applied Science, Associate of Applied Business, Associate of Technical Study, or Associate of Arts degrees. Students pursuing Bachelor degrees are not eligible for Community College rates once 64 credit hours have been earned.

Dean’s Honor List – Graduation Honors

The Dean’s Honor List is designed to recognize those students who achieve outstanding academic success. The students whose names appear on the Dean’s List have earned a 3.75 or higher GPA for all work taken during the previous term. For consideration, a student must have been enrolled for a minimum of twelve (12) credit hours and must have completed all courses for which registered.

Students maintaining a high academic standard throughout their degree program are recognized at commencement exercises. Students with a cumulative GPA between 3.50 and 3.74 are recognized as cum laude; between 3.75 and 3.89 are recognized as magna cum laude; at 3.90 or higher are recognized as summa cum laude.

Merit List

The Merit List is designed to recognize full-time or part-time students, once they accumulate 12 semester hours of earned credit, who have earned a 3.5 – 3.74 GPA for all work taken during the previous term.

Graduation Requirements

Minimum credit hour requirements are 64 hours for an associate degree, 126 hours for a bachelor degree, and 32 hours for a master’s degree. Applied associate degrees generally exceed 64 hours and may be as high as 74 hours. Most students exceed minimum requirements for graduation. In addition, for the bachelor degree, the student must take at least thirty-three (33) hours at the 30000-40000 level unless exception is made for the program by the Academic Affairs Committee. Associate degree candidates must complete the General Education Program and an area of concentration for the Associate of Arts Degree or the prescribed program for an associate degree in a technical area. For the bachelor degree, students must complete the General Education Program and at least one of the following: (1) a major and minor program, (2) a comprehensive major, or (3) an approved teacher licensure program. Students seeking a degree from the University and Community College must fulfill the following requirements:

A. Declare and complete the prescribed program of studies;
B. Achieve a GPA of 2.00 for all courses, for each major, and for each minor. Some programs or parts of programs may require higher GPAs for graduation.
C. For an associate degree, a student must be enrolled in the University and the Community College for the last 20 hours and must take at least two courses in the area of concentration. Students seeking the Associate Degree in Nursing must complete all degree requirements within five years of their semester of initial enrollment in the Nursing Program. Students seeking the Bachelor of Science in Nursing Degree must complete all degree requirements within seven (7) years of their semester of initial enrollment in the R.N. – B.S.N. Program.
D. For a transfer student seeking a baccalaureate degree, a minimum of 30 hours must be taken at the University. At least 20 of these hours must be in upper level (30000 and 40000) courses. At least 10 of these 20 upper level course hours must be in the major.

E. Credit earned through experiential learning (i.e., Life Experience Credit) does not count toward the residency requirement for any degree or program.

F. Apply for awarding of degree and for participation in the Commencement upon senior standing.

G. Complete assessment activities for appropriate major and General Education. The results of such assessment activities will in no way affect a student’s grades or academic status, but will be utilized by the University Assessment Program to assess and further improve the quality of instruction and student learning.

H. Where any major/minor combination has certain identical course requirements for a baccalaureate degree, then said courses may apply to applicable areas, except the BSW. However, the school(s) involved reserve(s) the right to recommend to the Academic Affairs Committee additional/special requirements.

Residence Requirements

The Residence Requirement for a degree is the minimum number of semester hours a student must take at the University of Rio Grande. The intent of this policy is to provide adequate contact with the University of Rio Grande and its faculty for each student who is awarded a degree. Rio Grande courses taken at off-campus sites or via distance learning meet the intent of this requirement.

A. A candidate for an associate degree must take a minimum of 15 of the last 18 hours and at least two courses in the area of concentration at the University of Rio Grande.

B. A candidate for a bachelor degree must take a minimum of 30 of the last 36 hours at the University of Rio Grande. This requirement also includes at least 18 hours in the major at Rio Grande and 6 hours in the minor, if applicable.

C. A candidate for the masters degree must complete a minimum of 50% of the required coursework registered through the University of Rio Grande. This coursework can be a combination of Internet courses, classroom courses, and/or travel related courses. The student’s assigned advisor/mentor will officially confirm that the student has accomplished the “adequate contact” as required by the Residence Requirements.

Graduation Requirements for Granting a Second BS or BA Degree

The following comprise all the requirements for students to obtain a second BS or BA degree:

A. Students must meet all the requirements for a second major.

B. In addition to the current 126 hours of credit necessary to earn the first degree, students must complete 30 additional hours of upper level credit which will count toward the second degree.

C. Students may use the same credit from their General Education courses toward both degrees.

D. The number of upper level credit hours which may be used (or substituted) toward both degrees shall be limited to no more than 8 credit hours.

E. The second degree must be in a different area of knowledge. For example, students may earn a degree in business and a second degree in the sciences, etc. In addition, in the area of the liberal arts and social sciences, students may earn a degree in sociology and another psychology, a degree in history and a degree in English, or a degree in economics and a degree in political science. Furthermore, in the School of Business students may earn a degree in accounting and a degree in business administration. A second degree can not be earned, however, in an area of knowledge which is too similar or closely related to the first degree major. What will count or will not count as a “different area of knowledge” suitable for earning a second degree will depend upon the approval of the Deans in the relevant disciplinary area.

F. A license (e.g., in education) to an already earned degree (e.g. English) can not count as a second degree.

G. For those who graduate with a BS or BA from the University of Rio Grande and subsequently return to pursue a second BS or BA, the number of years between graduation and returning to pursue a degree can be no more than seven (7) years.

Audit

Students not wishing to enroll formally in a course may enroll as an auditor during the class registration process. Courses may be audited at the appropriate fee schedule listed in the “Costs and Financial Aid” section of this Catalog. The extent of participation in class as an auditor will be based on the previous experience of the student and the guideline established by the instructor of the specific course. A record of audit (AU) is recorded on the transcript, but carries neither academic credit nor fulfills any program requirement.

Commencement

Students may apply to the Records Office for graduation by the date indicated in the Academic Calendar located in the front of this Catalog to assure all requirements are met. Students are required to participate in commencement exercises, unless prior written approval is obtained from the Registrar. The Commencement Ceremony is held annually in May. Individual programs may establish additional deadlines related to commencement. The appropriate program section of this Catalog should be consulted.

Registration Procedures

Time periods are set aside during each semester for students to register for the following semester (see Academic Calendar section of this Catalog). Deadlines for registration and for payment of fees are established each term. Students must meet registration and payment deadlines in order to be enrolled for those terms. Students not completing the registration process prior to these deadlines will be required to pay the “late registration fees.” Student financial accounts must be kept current for continued enrollment.

Drop/Add/Withdrawal Policy

Students may add classes through the first academic week of any academic term. Students who drop any class through the first week of any academic term will not be charged for that class. Once classes have begun a drop or add fee will be accessed. Any class dropped within the first week will not appear on student’s transcript. Classes
Students may not withdraw from a course they are failing due to a violation of the Academic Integrity Policy.

Dropping all classes does constitute an official withdrawal from the University.

It is the responsibility of the student to complete all schedule changes with the Records Office. Schedule changes may not be completed by a faculty member, by phone, or by proxy.

**Policy for Students called to Military Duty**

Any University of Rio Grande and Rio Grande Community College student called to military service will not be academically or financially penalized.

Rio Grande will work with currently enrolled students to allow them to take an “I” (Incomplete) if they need to complete course requirements after the end of the term. Students should work with their advisors, faculty members, and Academic Affairs staff in the event they are called away into military service.

If an “incomplete” grade is not an option for a student, Rio Grande will review the academic status of each affected student to gain an administrative withdrawal.

A withdrawal on a student’s record will be reviewed by the Financial Aid and Accounting Offices on a case by case basis to assure that no student called to military duty will be financially penalized as a result of military responsibilities.

**Course Cancellation**

The Provost reserves the right to cancel scheduled classes for which there is excessively low enrollment or other substantial reason.

**Program Changes**

The University of Rio Grande and Rio Grande Community College reserve the right to make changes in programs, policies, and fees. Students enrolled in academic programs may expect to complete the courses as specified in the Catalog of the year of their first enrollment if the program is completed within five years, or they may choose to graduate under the Catalog in effect for the year in which they graduate. If the program is not completed within five years, students will meet requirements of the Catalog in effect. Every effort is made to minimize course and program changes. A student cannot combine the graduation requirements of two or more Catalogs.

**University Assessment Plan**

One principal question of major concern and focus helps guide the University Assessment Program in determining how well students meet the goals and objectives articulated in the University’s mission statement:

Are students at the University of Rio Grande acquiring the knowledge and skills needed to become educated citizens and successful professionals within their chosen course of study in an increasing global society?

To answer this question, the University Assessment Program will continue to implement a variety of assessment activities in the General Education Program and major fields. All students are expected to participate in such activities in order to obtain information as a primary method for the University to further enhance student learning and improve educational programs and instruction.

**Academic Services**

**The Michael V. and Flora Jenkins Center for Student Success**

The Jenkins Center for Student Success provides academic support services in math, reading, writing, and other subject areas for any student enrolled at the University of Rio Grande and Rio Grande Community College.

It is located in the James A. Rhodes Student Center and houses a Math Lab (Room 110) located near the front of the building, a Smart Classroom (Room 100) located across the hall from the Math Lab, and the Jenkins Center Open Lab (Room 101) located next to the Smart Classroom. The Center is one of two open labs on the University of Rio Grande campus. The Math Lab has a full-time staff member and several student tutors; the Smart Classroom has 24 Dell computers and state-of-the-art equipment and software; the open lab contains 34 Dell computers of which two have large screens for students who have visual challenges, and a large desk area located in the front of the facility.

The Center provides academic support services to students at no additional charge; these services include tutoring, Microsoft Office software, computerized tutorial programs, Internet accessibility and other resources. Support is also available for those students whose disability is defined by the Americans with Disabilities Act 1990 (ADA) and/or Section 504 of 1973. The Center can be reached by calling 740-245-7400.

The University of Rio Grande and Rio Grande Community College tutor training program is nationally certified by the College Reading and Learning Association at both Level I/Regular and Level II/ Advanced until 2013. Sophomores, juniors, and seniors who have a GPA of 3.0 are trained as peer tutors to serve in the Jenkins Center.

**Jeanette Albiez Davis Library**

The Jeanette Albiez Davis Library has holdings in excess of 584,000 items, including 103,072 volumes, 448,345 units of microforms, and 2,419 audio-visual materials. Davis Library subscribes to over 190 current paper periodicals and maintains a collection of approximately 30,000 government documents as a selective U.S. Government Documents Depository. Davis Library’s regular and special hours are regularly updated on the Library’s web page.
Through its home page on the World Wide Web (http://library.rio.edu), Davis Library offers students and the Rio academic community access to a growing local collection and up-to-date electronic information resources along with online help to meet research and study needs. These include the Library’s local public access catalog, RioCat, which provides indexing to its entire collection (http://alpha.rio.edu), an information literacy blog (http://library.rio.edu/infolitblog/), which provides online instruction, tutorials and announcements, as well as to OhioLINK, a consortium of Ohio academic libraries offering remote access to book collections across the State, as well as access to a wealth of research databases and thousands of electronic journals (http://www.ohiolink.edu/). Davis Library also maintains a Facebook page: (https://www.facebook.com/pages/Davis-Library/6188377448)

Through OhioLINK, students can request books from other member libraries and receive them within a few days. Thousands of journal articles are available full-text through OhioLINK and can be printed or saved directly to a workstation. Rio students may also visit and use other OhioLINK libraries throughout the State simply by presenting their valid Rio Grande student I.D. card. Additionally, as a charter member of the Online Computer Library Center (OCLC), and OHIONET, a statewide network of OCLC participating libraries, Davis Library can provide students, faculty, and staff with access to virtually anything they may wish to use for their research through its traditional interlibrary loan service using online request forms. Davis Library’s interlibrary loan service can access the collections of libraries throughout the nation and the world. All in all, Davis Library strives to facilitate the retrieval of information, in any form, and provide resources and services in support of the academic programs of the University and Community College.

The Library’s computer network supports word processing, spreadsheet, e-mail, social networking, and web browsing for student use. For handicapped students, there are handicapped parking areas adjacent to the Library with full access to the facility through the main entrance via ramp walkways and mechanically assisted doors. Aisles are handicapped accessible. An elevator provides access to all three floors. The Library is equipped with handicapped accessible rest rooms on the main floor. Davis Library is affiliated with the Talking Book Program and has access to books and periodicals on record, cassette tape, and in Braille and large print.

Davis Library is central to academic life at the University of Rio Grande/Rio Grande Community College (URG/RGCC). Its mission is to support and meet the informational needs of both campus and community users. In addition to providing quality collections and services that are easily accessible, the Davis Library also provides opportunities for social and cultural growth and enlightenment throughout the Ohio Appalachian region. The Davis Library is a place where people share ideas and information. The Friends of the Davis Library help promote the Davis Library within the community both on and off campus. Friends create awareness of the Library’s operations and needs. Through fundraising efforts and its Bookplate Donation Program, Friends help encourage the growth of Davis Library’s collections, programs and services. By organizing and sponsoring a wide variety of activities and events that are beyond the scope of the Library’s budget, Friends also helps to enhance the library’s commitment to outreach and public service.

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**Instructional Design and Media Services**

Instructional Design and Media Services (IDMS), located in Wood Hall, 127, assists with projects requiring enhanced communication, alternative instructional methods, and other specialized media needs. Serving faculty, staff, students, and campus/community organizations, the IDMS provides access to instructional media equipment and materials, provides a center for the local production of audiovisual materials, conducts training in A-V production and utilization for teacher trainees, and maintains an inventory of all campus A-V equipment. The IDMS maintains a satellite receiving and distribution system which is connected via closed circuit to the academic buildings on campus, including the Wood Hall auditorium, with its 160-seat capacity and projections television system. The IDMS is also the home of RGCA, the campus television/radio system wired into the village cable system. RGCA carries a bulletin board for all informational and non-profit messages on Channel 5, while simulcasting campus radio or local commercial stations. The IDMS also maintains the fiber-optic interactive television system, offering instruction to local schools. The IDMS maintains membership in the Adult Learning Satellite System and the Kent State film library. During the most recent evaluation by the Ohio Department of Education in 1992, the IDMS received a commendation that stated the IMC, “...exemplifies a state of the art facility that offers media programs for the students, staff, and community which enhances the entire educational program.”

**Honors Program**

The Honors Program gives the Honors students the opportunity to work more closely with faculty members on research of their own choosing. The Honors Degree demonstrates to potential employers, professional programs, or graduate programs that the student who has completed the Honors Program is willing to do the extra work to achieve success. The University of Rio Grande Honors Program is a member of the National Collegiate Honors Council which is nationally and internationally recognized.

To learn more about the Honors Program a student may contact one of the Co-Directors:

- Dr. Barry Thompson, 740-245-7266 office; email: barryt@rio.edu
- Judith Thompson, 740-245-7149 office; email: juditht@rio.edu

First semester Rio Grande students must meet only two of the following criteria:

- Upper 10 percent of high school graduating class
- 3.5 high school GPA
- ACT composite score of 25
- Letter of recommendation by a Rio Grande faculty member and/or high school teacher or counselor

Students who are already enrolled need:

1. 3.25 GPA on a minimum of 8 hours coursework undertaken at Rio Grande
2. Letter of recommendation by a Rio Grande faculty member

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**Letter of recommendation by a Rio Grande faculty member**
There are two levels in the Honors Program – Associate and University.

**Associate Honors (first two years):**

Students must complete the Beginning Honors Seminar and 10-11 credit hours in Honors contract courses:

- HON 10101 Beginning Honors Seminar .................. 1
- Honors contract courses..................................... 10-11

Associate Honors total required hours................................. 11-12

**University Honors (second two years):**

Students must take the Junior Honors seminar and complete the two thesis courses.

- HON 37103 Junior Honors Seminar (Fall of Junior year)...... 3
- HON 48103 Honors Thesis I (Spring of Junior year)......... 3
- HON 48203 Honors Thesis II (Fall of Senior year)......... 3

University Honors total required hours............................ 9

**Thesis must be completed by March 15th of the senior year.**
Mission Statement

The General Education Program provides liberal arts and science-based awareness, knowledge, and skills as an integral part of students’ ongoing learning experience and educational goals. The Program offers opportunities for students to become literate, self-directed, committed to excellence, aesthetically aware, and ethically responsible individuals concerned with integrity and respect for people.

Learning Outcomes

Upon completion of the General Education Program, students will be able to accomplish the following:

- Communication: Demonstrate effective communications skills in reading, writing, speaking, and listening. (Skills, literate)
- Cultural Diversity: Demonstrate a scientific knowledge of human behavior and acknowledge cultural diversity of different peoples of the world. (Liberal arts and science-based knowledge, respect for people, integrity)
- Human Values: Use an understanding of the historical and philosophical development of current cultures to demonstrate respect for human values and perspectives. (Liberal arts, literate, respect for people)
- Ethical Behavior: Demonstrate and value individual thinking, self-awareness, and ethical behavior in civic and community responsibility. (Self-directed, ethically responsible, concerned with integrity, respect for people)
- Technological Literacy: Demonstrate appropriate technological literacy and skills for personal and professional use. (Knowledge and skills, literate)
- Health & Well-Being: Demonstrate an understanding of behaviors that best promote personal health and psychological well-being. (Ongoing learning experience, self-directed, committed to excellence)
- Aesthetic Awareness: Identify and appreciate artistic expressions from historical, philosophical, and cultural perspectives. (Liberal arts, aesthetically aware)
- Critical Thinking: Use appropriate critical thinking skills to solve problems. (Literate, ongoing learning experience)
- Scientific Reasoning: Demonstrate an understanding of the fundamental concepts of mathematics and science, analytical ability, problem-solving capacity, and the use of the scientific method. (Science-based awareness, ongoing learning experience, literate)

General Education Requirements

All candidates for the Bachelor of Science degree and the Bachelor of Arts degree, except those seeking teacher licensure and majors in Industrial Technology, are required to complete the General Education Program. All candidates for the Associate of Arts degree are required to complete the General Education Program. Candidates for the degrees in Associate of Applied Business, Associate of Applied Science, and Associate of Technical Study will find general education requirements scheduled within their outlined courses of study: Accounting, Business Management, Career-Technical Education, Computer Aided Design and Drafting, Computer Science, Electronic Technology, Fine Woodworking, Information Technology, Manufacturing Technology, Nursing, Office Technology, Plant Maintenance Technology, and Technical Theatre. Students seeking teacher licensure will find general education requirements scheduled within their outlined course of study.

It is expected that students will complete the General Education Program in their first four semesters of full-time enrollment. Requirements in Freshman Success (LA 10101), English Composition, Reading, Mathematics, and Speech should be scheduled as early in the student’s program as possible.

In Mathematics and Natural Science, a more advanced level course may substitute for the specific General Education requirement listed below. Students should select General Education options in the Natural Sciences, Social Sciences, and Humanities with some care. In many cases, the General Education course is a prerequisite to more advanced courses needed for a major, minor, or field of concentration. In other cases, the student will receive credit in the major, minor, or field of concentration for the General Education course, as well as fulfill the requirements for the General Education Program.

The University Assessment Program will conduct a variety of assessment activities in order to assess these outcomes. The Assessment results will be utilized to improve the quality of the General Education Program here at the University. Students need to participate in the assessment upon their completion of the General Education required courses.

General Education Required Courses:

Communication Skills

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 11103</td>
<td>Fundamentals of Speech Communication*</td>
<td>3</td>
</tr>
<tr>
<td>ENG 11103</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 11203</td>
<td>Composition II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Communication Skills hours ........................................... 9

NOTE: Admission to English 11103 (Composition I) is determined by placement testing scores. Students without the necessary competencies must enroll in English 10104 (Introduction to Writing) and English 10204 (Reading and Learning Strategies). The credits in these courses may not be used to meet any part of the General Education Communication Skills requirement.

Health and Physical Education*

| HPE 10101 | Human Wellness and Physical Fitness | 1       |

Any HPE elective selected from activity courses ....................... 1

Total Health and Physical Education hours .................................. 2

Arts/Humanities required courses

Group I.

Select at least one course from:

<table>
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<tr>
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General Science requirements:

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</tr>
</thead>
<tbody>
<tr>
<td>SCI 20101</td>
<td>general science course</td>
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All candidates for the Bachelor of Science degree and the Bachelor of Arts degree, except those seeking teacher licensure and majors in Industrial Technology, are required to complete the General Education Program. All candidates for the Associate of Arts degree are required to complete the General Education Program. Candidates for the degrees in Associate of Applied Business, Associate of Applied Science, and Associate of Technical Study will find general education requirements scheduled within their outlined courses of study: Accounting, Business Management, Career-Technical Education, Computer Aided Design and Drafting, Computer Science, Electronic Technology, Fine Woodworking, Information Technology, Manufacturing Technology, Nursing, Office Technology, Plant Maintenance Technology, and Technical Theatre. Students seeking teacher licensure will find general education requirements scheduled within their outlined course of study.

It is expected that students will complete the General Education Program in their first four semesters of full-time enrollment. Requirements in Freshman Success (LA 10101), English Composition, Reading, Mathematics, and Speech should be scheduled as early in the student’s program as possible.

In Mathematics and Natural Science, a more advanced level course may substitute for the specific General Education requirement listed below. Students should select General Education options in the Natural Sciences, Social Sciences, and Humanities with some care. In many cases, the General Education course is a prerequisite to more advanced courses needed for a major, minor, or field of concentration. In other cases, the student will receive credit in the major, minor, or field of concentration for the General Education course, as well as fulfill the requirements for the General Education Program.

The University Assessment Program will conduct a variety of assessment activities in order to assess these outcomes. The Assessment results will be utilized to improve the quality of the General Education Program here at the University. Students need to participate in the assessment upon their completion of the General Education required courses.

General Education Required Courses:

Communication Skills

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Total Communication Skills hours ........................................... 9

NOTE: Admission to English 11103 (Composition I) is determined by placement testing scores. Students without the necessary competencies must enroll in English 10104 (Introduction to Writing) and English 10204 (Reading and Learning Strategies). The credits in these courses may not be used to meet any part of the General Education Communication Skills requirement.

Health and Physical Education*

| HPE 10101 | Human Wellness and Physical Fitness | 1       |

Any HPE elective selected from activity courses ....................... 1

Total Health and Physical Education hours .................................. 2

Arts/Humanities required courses

Group I.

Select at least one course from:

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</tr>
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<td>FPA 10503</td>
<td>Fine Arts</td>
<td>3</td>
</tr>
</tbody>
</table>
Group II.
Select at least one course from:
- ENG 24103 Literary Imagination
- HUM 20103 The Humanities
- PHR 21103 Philosophical Inquiry ..................3

Group III.
Select at least one course from:
- HIS 13103 World Civilization I
- HIS 13203 World Civilization II ..................3
Total Arts/Humanities hours ........................................9

Social Science required courses
SSC 11103 Introduction to Social Science ............3

Group I.
Select at least one course from:
- ATH 12103 Anthropology
- HIS 12203 American History II (Since 1877)
- POL 11103 American National Government ........3

Group II.
Select at least one course from:
- ECO 11103 Contemporary Economics
- PSY 11103 General Psychology
- SOC 11103 Introduction to Sociology ...............3
Total Social Science hours ........................................9

Liberal Arts (required of all entering freshmen)
LA 10101 Freshman Success ..............................1
Total Liberal Arts ....................................................1

Mathematics and Natural Science required courses
Group I. Mathematics:
Select at least one course from:
- MTH 14505 Precalculus
- MTH 21404 Intro Probability and Statistics*
- MTH 15105 Calculus 1 .................................4 - 5

Group II. Biology:
Select at least one course from:
- BIO 11404 Principles of Biology
- BIO 12104 Biology I .................................4

Group III. Natural Science:
Select at least one course from:
- CHM 10404 Principles of Chemistry
- NSC 22304 Environmental Science
- PHY 10404 Principles of Physics ....................4
Total Mathematics and Natural Science ................... 12-13

Total General Education required hours .................... 40-41
*(Not included in Ohio Transfers Module)

NOTE: In addition to this module, each major program will be required to include within the major an appropriate block of instruction in the use of computer productivity skills. This may be a course within the department, outside the department, or scattered throughout a major program’s curriculum. All graduates must demonstrate competence (go to http://www.rio.edu/assessment for the description of this computer technology productivity minimum competence) in computer technology productivity skills as assessed by the University Assessment Program.
Institutional Transfer

The Ohio Board of Regents in 1990, following the directive of the 119th Ohio General Assembly, developed the Ohio Articulation and Transfer Policy to facilitate students’ ability to transfer credits from one Ohio public college or university to another in order to avoid duplication of course requirements. A subsequent policy review and recommendations produced by the Articulation and Transfer Advisory Council in 2004, together with mandates from the 125th Ohio General Assembly in the form of Amended Substitute House Bill 95, have prompted improvements of the original policy. While all state-assisted colleges and universities are required to follow the Ohio Articulation and Transfer Policy, independent colleges and universities in Ohio may or may not participate in the transfer policy. Therefore, students interested in transferring to independent institutions are encouraged to check with the college or university of their choice regarding transfer agreements. In support of improved articulation and transfer processes, the Ohio Board of Regents will establish a transfer clearinghouse to receive, annotate, and convey transcripts among state-assisted colleges and universities. This system is designed to provide standardized information and help colleges and universities reduce undesirable variability in the transfer credit evaluation process.

Transfer Module

The Ohio Board of Regents’ Transfer and Articulation Policy established the Transfer Module, which is a specific subset or the entire set of a college’s or university’s general education curriculum in A.A., A.S., and baccalaureate degree programs. Students in applied associate degree programs may complete some individual transfer module courses within their degree program or continue beyond the degree program to complete the entire transfer module. The Transfer Module contains 54-60 quarter hours or 36-40 semester hours of course credit in English composition, (minimum 5-6 quarter hours or 3 semester hours) mathematics, statistics and formal/symbolic logic (minimum of 3 quarter hours or 3 semester hours); arts/humanities (minimum 9 quarter course or 6 semester hours); social and behavioral sciences, (minimum of 9 quarter hours or 6 semester hours); and natural sciences (minimum 9 quarter hours or 6 semester hours). Oral communication and interdisciplinary areas may be included as additional options. Additional elective hours from among these areas make up the total hours for a completed Transfer Module. Courses for the Transfer Module should be 100- and 200-level general education courses commonly completed in the first two years of a student’s course of study. Each state-assisted university, technical and community college is required to establish and maintain an approved Transfer Module.

Transfer Module course(s) or the full module completed at one college or university will automatically meet the requirements of individual Transfer Module course(s) or the full Transfer Module at another college or university once the student is admitted. Students may be required, however, to meet additional general education requirements at the institution to which they transfer. For example, a student who completes the Transfer Module at Institution S (sending institution) and then transfers to Institution R (receiving institution) is said to have completed the Transfer Module portion of Institution R’s general education program. Institution R, however, may have general education courses that go beyond its Transfer Module. State policy initially required that all courses in the Transfer Module be completed to receive its benefit in transfer. However, subsequent policy revisions have extended this benefit to the completion of individual Transfer Module courses on a course-by-course basis.

Transfer Assurance Guides

Transfer Assurance Guides (TAGs) comprise Transfer Module courses and additional courses required for an academic major. A TAG is an advising tool to assist Ohio university and community and technical college students planning specific majors to make course selections that will ensure comparable, compatible, and equivalent learning experiences across the state’s higher-education system. A number of area-specific TAG pathways in the arts, humanities, business, communication, education, health, mathematics, science, engineering, engineering technologies, and the social sciences have been developed by faculty teams. TAGs empower students to make informed course selection decisions and plans for their future transfer. Advisors at the institution to which a student wishes to transfer should also be consulted during the transfer process. Students may elect to complete the full TAG or any subset of courses from the TAG. Because of specific major requirements, early identification of a student’s intended major is encouraged.

Conditions for Transfer Admission

1. Ohio residents with associate degrees from state-assisted institutions and a completed, approved Transfer Module shall be admitted to a state institution of higher education in Ohio, provided their cumulative GPA is at least 2.0 for all previous college-level courses. Further, these students shall have admission priority over out-of-state associate degree graduates and transfer students.

2. When students have earned associate degrees but have not completed a Transfer Module, they will be eligible for preferential consideration for admission as transfer students if they have GPAs of at least 2.0 for all previous college-level courses.

3. In order to encourage completion of the baccalaureate degree, students who are not enrolled in an A.A. or A.S. degree program but have earned 60 semester or 90 quarter hours or more of credit toward a baccalaureate degree with a GPA of at least 2.0 for all previous college-level courses will be eligible for preferential consideration for admission as transfer students.

4. Students who have not earned an A.A. or A.S. degree or who have not earned 60 semester hours or 90 quarter hours of credit with a GPA of at least 2.0 for all previous college-level courses are eligible for admission as transfer students on a competitive basis.

5. Incoming transfer students admitted to a college or university shall compete for admission to selective programs, majors, and units on an equal basis with students native to the receiving institution.
Admission to a given institution, however, does not guarantee that a transfer student will be automatically admitted to all majors, minors, or fields of concentration at that institution. Once admitted, transfer students shall be subject to the same regulations governing applicability of catalog requirements as native students. Furthermore, transfer students shall be accorded the same class standing and other privileges as all other students on the basis of the number of credits earned. All residency requirements must be completed at the receiving institution.

Pass/fail courses, credit by examination courses, experiential learning courses, and other nontraditional credit courses that meet these conditions will also be accepted and posted to the student record.

Responsibilities of Students

In order to facilitate transfer with maximum applicability of transfer credit, prospective transfer students should plan a course of study that will meet the requirements of a degree program at the receiving institution. Students should use the Transfer Module, Transfer Assurance Guides, and Course Applicability System for guidance in planning the transfer process. Specifically, students should identify early in their collegiate studies an institution and major to which they desire to transfer. Furthermore, students should determine if there are language requirements or any special course requirements that can be met during the freshman or sophomore year. This will enable students to plan and pursue a course of study that will articulate with the receiving institution’s major. Students are encouraged to seek further information regarding transfer from both their advisor and the college or university to which they plan to transfer.

Appeals Process

Following the evaluation of a student transcript from another institution, the receiving institution shall provide the student with a statement of transfer credit applicability. At the same time, the institution must inform the student of the institution’s appeals process. The process should be multi-level and responses should be issued within 30 days of the receipt of the appeal.

General Education Requirements

English (6 credit hours)

Two courses required:

ENG 1103 Composition I ..............................................3
ENG 11203 Composition II ........................................ 3

NOTE: Admission to English 1103 (Composition I) is determined by placement testing scores. Students without the necessary competencies must enroll in English 10104 (Introduction to Writing) and English 10204 (Reading and Learning Strategies). The credits in these courses may not be used to meet any part of the General Education Communication Skills requirement.

Arts/Humanities (Minimum 9 credit hours)

At least one course from:

ART 10303 Art Appreciation ........................................3
FPA 10503 Fine Arts .................................................3
MUS 10403 Music Appreciation ....................................3

At least one course from:

HIS 13103 World Civilization I ....................................3
HIS 13203 World Civilization II ....................................3

At least one course from:

ENG 24103 Literary Imagination ..................................3
HUM 20103 The Humanities .......................................3
PHR 21103 Philosophical Inquiry .................................3

Social Science (minimum 9 credit hours)

One course required:

SSC 11103 Intro to Social Science ...............................3

At least one course from:

ATH 12103 Anthropology .........................................3
HIS 12203 American History II ..................................3
POL 11103 American National Government ..................3

At least one course from:

ECO 11103 Contemporary Economics ..........................3
PSY 11103 General Psychology ....................................3
SOC 11103 Introduction to Sociology ............................3

Mathematics (minimum 5 credit hours)

At least one course from:

MTH 14505 Precalculus .............................................5
MTH 15105 Calculus I ...............................................5

Natural Science (minimum 8 credit hours)

At least one course from:

BIO 12104 Biology I ...................................................4
BIO 12204 Biology II ...................................................4

At least one course from:

CHM 10404 Principles of Chemistry ...............................4
NSC 22304 Environmental Science ...............................4
PHY 10404 Principles of Physics ...................................4

Total Transfer Module Semester Hours Required: ..............37

Transfer Assurance Guide Approved Courses (TAG)

ART 10403 Two Dimension Design
ART 10503 Three Dimension Design
ART 12403 Drawing
ART 13404 Ceramics I
ART 14403 Sculpture I
ART 16304 Photography I
ART 18404 Painting I
ART 21404 Printmaking I
ART 22404 Figure Drawing
ATH 12103 Anthropology
ATH 23103 World Archaeology and Prehistory
BIO 12104 Biology I
BIO 12204 Biology II
CHM 15005 General Chemistry I
CHM 15505 General Chemistry II
CHM 26202 Organic Chemistry Laboratory I
CHM 26303 Organic Chemistry Theory I
CHM 27202 Organic Chemistry Laboratory II
CHM 27303 Organic Chemistry Theory II
ECO 11403 Intro to Microeconomics
ECO 12403 Intro to Macroeconomics
EDU 10303 School and Community
EDU 22403 Educating the Exceptional Learner
EDU 41403 Educational Psychology
ENG 25103 American Literature to the Civil War
ENG 25203 American Literature since the Civil War
ENG 26103 British Literature to the Romantic Era
ENG 26203 British Literature since the Romantic Era
HIS 12103 American History I
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 12203</td>
<td>American History II</td>
</tr>
<tr>
<td>HIS 13103</td>
<td>World Civilization I</td>
</tr>
<tr>
<td>HIS 13203</td>
<td>World Civilization II</td>
</tr>
<tr>
<td>IT 10203</td>
<td>MS Office and the Internet I</td>
</tr>
<tr>
<td>MKT 26403</td>
<td>Prof Communication &amp; Business Networking</td>
</tr>
<tr>
<td>MTH 15105</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MTH 15204</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MTH 15304</td>
<td>Multivariable Calculus</td>
</tr>
<tr>
<td>MTH 27703</td>
<td>Differential Equations I</td>
</tr>
<tr>
<td>MTH 38403</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>MUS 13101</td>
<td>Masterworks Chorale</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MUS 15101</td>
<td>Instrumental Lab Practicum</td>
</tr>
<tr>
<td>NSC 22403</td>
<td>Intro to Biological Anthropology</td>
</tr>
<tr>
<td>PHY 20505</td>
<td>General Physics I with Calculus</td>
</tr>
<tr>
<td>PHY 21505</td>
<td>General Physics II with Calculus</td>
</tr>
<tr>
<td>PSY 11103</td>
<td>General Psychology</td>
</tr>
<tr>
<td>SOC 11103</td>
<td>Intro to Sociology</td>
</tr>
<tr>
<td>THR 12302</td>
<td>Acting I</td>
</tr>
<tr>
<td>THR 23302</td>
<td>Dramatic Literature</td>
</tr>
<tr>
<td>THR 25503</td>
<td>Stage Crafts</td>
</tr>
<tr>
<td>THR 26602</td>
<td>Production Credits</td>
</tr>
</tbody>
</table>
Mission Statement

The Emerson E. Evans School of Business is a student-centered, business school dedicated to opening learning opportunities for students in leadership, collaboration, and business management. To successfully meet the challenges of the global marketplace, students develop partnerships with business owners and leaders to explore business operations and opportunities.

Degrees Offered

Bachelor of Science – Accounting
Associate of Applied Business – Accounting
Bachelor of Arts or Science – Minor in Accounting

Learning Outcomes

Students will be able to:

- Correctly record the appropriate journal entry for common accounting transactions of a business and correctly record the appropriate adjusting journal entry for accrual type adjustments for the end of the accounting period.
- Apply GAAP’s requirement of the accrual method of accounting in all parts of the accounting cycle, through purchases, sales, accrual adjustments and deferral adjustments.
- Record revenues using GAAP criteria and evaluate accrued revenues using reasonable estimates for doubtful accounts.
- Apply GAAP formatting and presentation with respect to the accounting period’s current and long-term classifications.
- Prepare the income statement, statement of owner’s equity, balance sheet and cash flow statements from the ledger accounts, and to communicate appropriate disclosures in the notes to the financial statements.
- Use Excel and other software to perform cost accounting budgeting, auditing sampling, end of month closings, etc.
- Document the findings of audits and reviews, use the appropriate forms and schedules for tax preparations, apply the information from corporate 10-Ks and 10-Qs to determine the financial health of a company, and generate the proper documents for incorporation.
- The graduating student will be able to demonstrate core business proficiencies in the areas of accounting, economics, management, finance, marketing, international business, and information technology.

Facilities

The Bob Evans Farms Hall was built in 2001 and is the home of the Emerson E. Evans School of Business. A distinctive tower creates a central sky light in the center of the building which houses three computer labs, faculty offices, a student lounge area, large and small meeting rooms, as well as class rooms.

Accounting

Emerson E. Evans, School of Business
College of Professional and Applied Studies

Most business classes meet in Bob Evans Farms Hall with enough classroom space to also house other courses on campus.

Accreditation

The Emerson E. Evans School of Business is accredited through the International Assembly of Colleges in Business Education (IACBE).

Additional Assessment Requirements for Business Majors:

All business students must take the following pre and post tests prior to graduation.

- Associate Degree – Pre-Test First Semester & Post-Test prior to graduation.
- Baccalaureate Degree – Pre-Test First Semester and Post-Test prior to graduation PLUS the Major Field Test in Business or an assigned equivalent.

Degree Requirements

Bachelor of Science - Comprehensive Major in Accounting (3040)

The Comprehensive Accounting program is designed primarily for students who are interested in pursuing an accounting career in the public sector, or desiring to obtain a Certified Public Accounting credential (CPA). Emerson E. Evans School of Business accommodates the additional credit requirement for the CPA certification by offering additional accounting classes to graduating students.

General Education (see page 28) must include:

- MTH 21404 Introduction to Probability and Statistics…. 4
- IT 10103 Introduction to Information Technology ………3
- Total General Education hours………………………………42

Business Core required courses

- ACC 11403 Principles of Accounting I…………………3
- ACC 12403 Principles of Accounting II…………….3
- BM 20403 Principles of Management………………….3
- BM 27403 Introduction to Business Law……………3
- ECO 11403 Microeconomics…………………………3
- ECO 12403 Macroeconomics……………………….3
- MKT 21403 Principles of Marketing…………………..3
- BM 28901 Business Portfolio (2-year Capstone)…….1
- IT 10203 MS Office/Internet…………………………3
- FIN 20403 Financial Management…………………..3
- FIN 21403 Principles of Investment…………………..3
- Total Business Core hours……………………………..31
**Major Area required courses**
- ACC 21403 Intermediate Accounting I ........................................3
- ACC 22403 Intermediate Accounting II ....................................3
- ACC 34403 Federal Income Taxation ........................................3
- ACC 35403 Management Accounting .......................................3
- ACC 36403 Auditing Principles ................................................3
- ACC 43403 Computer Applications in Accounting ..................3
- ACC 46403 Advanced Cost Accounting ...................................3
- ACC 47403 Ethics in Accounting .............................................3
- ACC 42403 Advanced Accounting ...........................................3
- ACC 49102 Internship/Experience in Accounting ....................2
- BM 47903 Strategic Management ............................................3

Total major area hours ................................................................32

Personal elective hours may include minor ................................21

Total required hours for degree .................................................126

**Bachelor of Arts or Science – Minor in Accounting (3030)**

The minor is designed for students majoring in programs including a BS degree in Business as a means of providing expanded career options.

**Major Area required courses**
- ACC 11403 Principles of Accounting I ....................................3
- ACC 12403 Principles of Accounting II ....................................3
- ACC 24403 Federal Income Taxation ........................................3
- ACC 25403 Management Accounting .......................................3
- ACC 21403 Intermediate Accounting I ....................................3
- BM 28901 Business Portfolio ..................................................1

Total major area hours ................................................................22

Personal Electives .......................................................................9

Total required hours for degree .................................................61

**Major and elective hours** .........................................................66

**Total required hours for degree** .............................................126
Mission Statement

The Bachelor of Fine Arts in Visual Art Program will prepare students for a lifelong vocation or avocation in a variety of visual arts media.

Learning Outcomes

The Bachelor of Fine Arts in Visual Art Program has the following Program Student Learning Outcomes (PSLOs).

Student is able to:

• Create a cohesive body of work within the chosen area of concentration.
• Demonstrate formal and technical proficiency in their area of study.
• Exhibit and document their work and experiences professionally.
• Explain the historical, cultural and conceptual aspects of their work.
• Conduct independent research in the arts.

Degrees Offered

Bachelor of Fine Arts in Visual Art – General Fine Arts
Bachelor of Fine Arts in Visual Art – Two Dimensional Art
Bachelor of Fine Arts in Visual Art – Three Dimensional Art
Bachelor of Fine Arts in Visual Art – Graphic Design
Bachelor of Science – Visual Arts; Multi-Age
(see degree requirements listed under Education)

Associates of Art in Visual Art
Bachelor of Arts or Science – Minor in Art, Photography, or Graphic Design

Facilities

The Rio Grande John W. Berry Fine and Performing Arts Center opened in 1981. A signature glass atrium introduces visitors to the Center and serves as an entry to the 500 seat state-of-the-art Alphus R Christensen Theatre. The theatre hosts numerous university and community productions and serves as a cultural hub to residents in a five-county area of Southern Ohio and West Virginia.

Within the Center, the Art Department houses a Mac computer lab with Adobe software for web and print production, a large-scale color printer, a fully equipped darkroom and multi-purpose classrooms.

The Esther Allen Greer Museum houses a 3,000 square foot exhibition space, museum prep room for framing and preparing artwork for display, multi-purpose classrooms and the University Archives. Among the museum’s holdings are numerous prints, drawings, paintings and sculpture comprising the Brooks Jones Endowment Collection.

The Art Annex was constructed in 1997. This 10,000 square foot building houses equipment and dedicated space for woodworking, metalworking, stone carving, printmaking, drawing, painting, hand building and wheel throwing ceramics, as well as a number of kilns and a foundry.

Degree Requirements

The Bachelor of Fine Arts degree is a professional degree with greater major course requirements than a Bachelor of Arts or a Bachelor of Science degree. The BFA is designed primarily for students who are interested in professional art production, print or web design, private school or studio teaching, museum, gallery or curatorial work, graduate school, and other areas in which an extensive visual arts background would be an asset or a necessity.

The University of Rio Grande awards a Bachelor of Fine Arts in Visual Art with one of four concentrations: General Fine Arts, Two Dimensional Art, Three Dimensional Art, and Graphic Design.

Bachelor of Fine Arts in Visual Art – General Fine Arts Concentration (1750)

The General Fine Arts Concentration is designed for students who want to work in a variety of two and three dimensional media.

General Education (see page 28) ..............................................................39
BFA students are not required to complete a Group 1 Humanities course, as ART 15404 Western Art History I will substitute.

Major Area required courses

Studio Foundations
ART 10403 Two-Dimensional Design ..............3
ART 12403 Drawing I..............................................3
ART 12301 Art Portfolio..........................................1
ART 23201 Exhibits.................................................1
ART 20104 Raster Graphics.................................4
Total Studio Foundations hours ....................................15

Art History
ART 15404 Western Art History I .....................4
ART 25404 Western Art History II ....................4
ART 36503 Non-Western Art History ...............3
ART 46503 Art History Criticism and Philosophy ..3
Total Art History hours ..............................................14

Studio Core
ART 24504 Sculpture I .................................4
ART 23504 Ceramics I ........................................4
Select one from the following two courses
ART 26904 Digital Photography
ART 26604 Darkroom Photography I
Total one course, four credit hours.................4
ART 38504 Drawing II .........................................4
Major Area required courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 24504 Sculpture I</td>
<td>4</td>
</tr>
<tr>
<td>ART 23504 Ceramics I</td>
<td>4</td>
</tr>
<tr>
<td>Select one from the following two courses:</td>
<td></td>
</tr>
<tr>
<td>ART 26904 Digital Photography I or ART 26604 Darkroom Photography I</td>
<td>4</td>
</tr>
</tbody>
</table>

Total major area hours ...................................................................... 78

Personal elective hours......................................................................... 9

Total required hours for degree.......................................................... 126

Bachelor of Fine Arts in Visual Art – Two Dimensional Art Concentration (1760)

The Two Dimensional Art Concentration is designed for BFA students who want to work in a variety of two dimensional media.

General Education (see page 28) must include: 39

BFA students are not required to complete a Group 1 Humanities course, as ART 15404 Western Art History I will substitute.

Major Area required courses

<table>
<thead>
<tr>
<th>Studio Concentration (1760)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete 24 hours from the following courses:</td>
<td></td>
</tr>
<tr>
<td>ART 20204 Vector Graphics</td>
<td>4</td>
</tr>
<tr>
<td>ART 20304 Web Graphics</td>
<td>4</td>
</tr>
<tr>
<td>ART 24504 Sculpture II</td>
<td>4</td>
</tr>
<tr>
<td>ART 34504 Sculpture III</td>
<td>4</td>
</tr>
<tr>
<td>ART 33504 Ceramics II</td>
<td>4</td>
</tr>
<tr>
<td>ART 43504 Ceramics III</td>
<td>4</td>
</tr>
<tr>
<td>ART 38604 Painting II</td>
<td>4</td>
</tr>
<tr>
<td>ART 48604 Painting III</td>
<td>4</td>
</tr>
<tr>
<td>ART 36604 Darkroom Photography II</td>
<td>4</td>
</tr>
<tr>
<td>ART 46604 Darkroom Photography III</td>
<td>4</td>
</tr>
<tr>
<td>ART 36904 Digital Photography II</td>
<td>4</td>
</tr>
<tr>
<td>ART 46904 Digital Photography III</td>
<td>4</td>
</tr>
<tr>
<td>ART 31504 Printmaking II</td>
<td>4</td>
</tr>
<tr>
<td>ART 41504 Printmaking III</td>
<td>4</td>
</tr>
<tr>
<td>ART 48801-4 Selected Topics (may repeat) ...1 – 4</td>
<td></td>
</tr>
</tbody>
</table>

Total Studio Concentration hours .................................................. 24

Total major area hours ...................................................................... 78

Personal elective hours......................................................................... 9

Total required hours for degree.......................................................... 126

Bachelor of Fine Arts in Visual Art – Three Dimensional Art Concentration (1770)

The Three Dimensional Concentration is designed for BFA students who want to work in a variety of three dimensional media.

General Education (see page 28) must include: 39

BFA students are not required to complete a Group 1 Humanities course, as ART 15404 Western Art History I will substitute.

Major Area required courses

<table>
<thead>
<tr>
<th>Studio Foundations (1770)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 10403 Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 12403 Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 10503 Three-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 12301 Art Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>ART 23201 Exhibits</td>
<td>1</td>
</tr>
<tr>
<td>ART 20104 Raster Graphics</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Studio Foundations hours .................................................... 15

<table>
<thead>
<tr>
<th>Art History (1770)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 15404 Western Art History I</td>
<td>4</td>
</tr>
<tr>
<td>ART 25404 Western Art History II</td>
<td>4</td>
</tr>
<tr>
<td>ART 36503 Non-Western Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 46503 Art History Criticism and Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Art History hours ..................................................................... 14

<table>
<thead>
<tr>
<th>Studio Core (1770)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 24504 Sculpture I</td>
<td>4</td>
</tr>
<tr>
<td>ART 23504 Ceramics I</td>
<td>4</td>
</tr>
<tr>
<td>Select one from the following two courses:</td>
<td></td>
</tr>
<tr>
<td>ART 26904 Digital Photography I or ART 26604 Darkroom Photography I</td>
<td>4</td>
</tr>
<tr>
<td>ART 38504 Drawing II</td>
<td>4</td>
</tr>
<tr>
<td>ART 28604 Painting I</td>
<td>4</td>
</tr>
</tbody>
</table>
Bachelor of Fine Arts in Visual Art – Graphic Design Concentration (1780)

The Graphic Design Concentration is designed for BFA students who want to work in illustration, print and web design.

General Education (see page 28) must include: .......................................................... 39
BFA students are not required to complete a Group 1 Humanities course, as ART 15404 Western Art History 1 will substitute.

Major Area required courses.......................................................... 78

**Studio Foundations**
- ART 10403 Two-Dimensional Design .................................................. 3
- ART 12403 Drawing I .............................................................................. 3
- ART 10503 Three-Dimensional Design .................................................. 3
- ART 12301 Art Portfolio ......................................................................... 1
- ART 23201 Exhibits ................................................................................ 1
- ART 20104 Raster Graphics ................................................................. 4

Total Studio Foundation hours .................................................................. 15

**Art History**
- ART 15404 Western Art History I .......................................................... 4
- ART 25404 Western Art History II .......................................................... 4
- ART 36503 Non-Western Art History ..................................................... 3
- ART 46503 Art History Criticism and Philosophy ................................... 3

Total Art History hours .............................................................................. 14

**Studio Core**
- ART 24504 Sculpture I ............................................................................. 4
- ART 23504 Ceramics I ............................................................................. 4
- Select one from the following two courses
  - ART 26904 Digital Photography I or ART 26604 Darkroom Photography I .... 4
- ART 38504 Drawing II ............................................................................. 4
- ART 28604 Painting I ............................................................................ 4
- ART 21504 Printmaking I ...................................................................... 4
- ART 48501 Senior Exhibit .................................................................... 1

Total Studio Core hours .......................................................................... 25

**Studio Concentration**
Complete the following courses.
- ART 20204 Vector Graphics ................................................................. 4
- ART 20304 Web Graphics ................................................................. 4

ART 30104 Junior Design Studio I .............................................................. 4
ART 30204 Junior Design Studio II ............................................................ 4
ART 40104 Senior Design Studio I ............................................................ 4
ART 40204 Senior Design Studio II ............................................................ 4

Total Studio Concentration hours ............................................................. 24

Total major area hours .............................................................................. 78

Personal elective hours ................................................................................ 9

Total required hours for degree ............................................................... 126

Bachelor of Science – Art Education: Multi Age (see degree requirements listed under Education)

Associate of Arts - Visual Art (1721)

General Education (see page 28) must include: ........................................... 39
AA students are not required to complete a Group 1 Humanities course, as ART 15404 Western Art History 1 will substitute.

Major Area required courses
- ART 15404 Western Art History I QR
- ART 25404 Western Art History II .......................................................... 4
- ART 10403 Two Dimensional Design ..................................................... 3
- ART 12403 Drawing I ............................................................................. 3
- ART 12301 Art Portfolio ......................................................................... 1
- ART 10503 Three Dimensional Design .................................................. 3
- ART 23201 Exhibits ................................................................................ 1
- ART 20104 Raster Graphics ................................................................. 4

Eight hours of ART courses at the 20000 level ......................................... 8

Total major area hours .............................................................................. 27

Total required hours for degree ............................................................... 66

Associate of Arts – Graphic Design (1782)

General Education (see page 28) ................................................................. 39
AA students are not required to complete a Group 1 Humanities course, as ART 15404 Western Art History 1 will substitute.

Major Area required courses
- ART 15404 Western Art History I QR
- ART 25404 Western Art History II .......................................................... 4
- ART 10403 Two Dimensional Design ..................................................... 3
- ART 12403 Drawing I ............................................................................. 3
- ART 12301 Art Portfolio ......................................................................... 1
- ART 23201 Exhibits ................................................................................ 1
- ART 20104 Raster Graphics ................................................................. 4
- ART 20204 Vector Graphics ................................................................. 4
- ART 20304 Web Graphics ................................................................. 4
- ART 21504 Printmaking I QR
- ART 26904 Digital Photography I OR ART 26604 Darkroom Photography I .... 4

Total major area hours .............................................................................. 28

Total required hours for degree ............................................................... 67
Bachelor of Arts or Science – Minor in Art (1730)

General Education (see page 28) ................................................ 39-45
   Art Minors are not required to complete a Group 1 Humanities course.

Minor Area required courses .................................................. 15
   15-18 hours of ART courses, at least 33% of which must be at the 30000/40000 level.

Major and elective hours ......................................................... 63 - 69

Total required hours for degree .................................................. 126

Bachelor of Arts or Science – Minor in Photography (1747)

General Education (see page 28) ................................................ 39-45
   Photography Minors are not required to complete a Group 1 Humanities course.

Minor Area required courses
   Note: 15 - 18 hours of ART courses, at least 33% of which must be at the 30000/40000 level.
   Select from the following courses.
   ART 26604 Darkroom Photography I ............................ 4
   ART 26904 Digital Photography I .............................. 4
   ART 36604 Darkroom Photography II ...................... 4
   ART 46604 Darkroom Photography III .................... 4
   ART 36904 Digital Photography II ......................... 4
   ART 46904 Digital Photography III ....................... 4

Total minor area hours ................................................................ 16

Major and elective hours ......................................................... 63 - 69

Total required hours for degree .................................................. 126

Bachelor of Arts or Science – Minor in Graphic Design (1781)

General Education (see page 28) ................................................ 39-45
   Graphic Design Minors are not required to complete a Group 1 Humanities course.

Minor Area required courses
   Note: 15 - 18 hours of ART courses, at least 33% of which must be at the 30000/40000 level.
   Select from the following courses.
   ART 20104 Raster Graphics ............................................. 4
   ART 20204 Vector Graphics ............................................. 4
   ART 20304 Web Graphics ................................................. 4
   ART 21504 Printmaking I .................................................. 4
   ART 31504 Printmaking II ............................................... 4
   ART 30104 Junior Design Studio I ............................... 4
   ART 30204 Junior Design Studio II ............................... 4

Total minor area hours ............................................................... 15

Major and elective hours ......................................................... 63 - 69

Total required hours for degree .................................................. 126
Mission Statement

The Behavioral and Social Science Comprehensive Major is designed to give the student a fundamental knowledge of three social science discipline areas selected by the student from five disciplines (Communication, History, Political Science, Psychology and Sociology). The degree is structured to be flexible in choices to permit a student to focus on disciplines of more significance for their career goals. General career goals range from education content to specific discipline emphasis in further academic studies.

Degrees Offered

Bachelor of Science – Comprehensive Major in Behavioral and Social Science

Learning Outcomes

The successful student will:

- Demonstrate a knowledge of the basic methods and history of the social sciences

The successful student will have three of the following outcomes depending upon the discipline areas selected by the student:

- To be able to demonstrate a knowledge of the basic concepts and theories of communication
- To be able to demonstrate a knowledge of the basic concepts and theories of political science
- To be able to demonstrate a knowledge of the basic concepts and theories of Psychology
- To be able to demonstrate a knowledge of the basic concepts and theories of Sociology

Degree Requirements

Bachelor of Science – Comprehensive Major in Behavioral and Social Science (09461)

General Education (see page 28) must include:

- ATH 12103 Anthropology .............................................3
- MTH 21404 Introductory Probability and Statistics ........4
- CS 10103 PC Applications ...........................................3
- PSY 11103 General Psychology ....................................3

Total General Education hours ........................................45

Major Area required hours ........................................... 56 - 57

Additional General Education courses

- POL 11103 American National Government ..................3
- SOC 11103 Introduction to Sociology ............................3

Required Additional Courses

- PHR 35203 Philosophy of Science .................................3
- SOC 36103 Social Research ...........................................3

Select THREE Discipline Areas and take all courses in each of the three disciplines:

Area A – Communication

- COM 22103 Principles of Discussion ............................3
- COM 25103 Mass Communication .................................3

Area B – History

- HIS 43703 History and Historians Seminar ....................3

Select one from the following two courses:

- HIS 41803 Topical Studies in History: Europe .................3
- HIS 42803 Topical Studies in History: USA ....................3

Select one from the following three courses:

- HIS 22403 The Westward Movement or HIS 22503 History of Ohio or HIS 24103 Non-Western History: Latin America ....3

Select two from the following six courses:

- HIS 34203 Non-Western History: Africa
- HIS 34303 Non-Western History: The Middle East
- HIS 32103 American Cultural History I
- HIS 32203 American Cultural History II
- HIS 35103 British History I
- HIS 35203 British History II

Total History hours .................................................. 6

Total hours needed to graduate ....................................56 - 57

Area C - Political Science

- POL 12103 American State Government .......................3
- POL 31103 The Presidency ..........................................3
- POL 31203 The American Constitutional System ............3
- POL 34103 Legislative Behavior & Process ....................3
- POL 35103 Comparative Government ............................3

Total Political Science hours ........................................15

Area D – Psychology

- PSY 22103 Human Growth & Development ...................3
- PSY 22203 Counseling Skills/Theoretical Found ............3
- PSY 33203 Social Psychology ......................................3
- PSY 37103 Personality .................................................3
- PSY 47103 Abnormal Psychology .................................3

Total Psychology hours ..............................................15

Area E – Sociology

- SOC 24103 Minority Groups .......................................3
- SOC 25103 Social Problems .........................................3
- SOC 25403 Marriage and the Family .............................3
- SOC 37203 Introduction to Aging ..................................3
- SOC 42103 Sociological Theory ....................................3

Total Sociology hours .................................................15

Summary:

General Education ......................................................42

Comprehensive Major ............................................... 57 - 61

(Including 3 discipline area choices, 6 hours additional General Education, and 6 hours additional required courses beyond General Education.)

Personal electives ......................................................23 - 24

Total hours needed to graduate ....................................126
Mission Statement

The mission of the biology department is to provide the student with a fundamental background in biology and related sciences to continue on into graduate or professional school (medicine, dentistry, etc.) or to obtain employment in biology or a biology related field.

Degrees Offered

Bachelor of Science-Comprehensive Major in Biology
- Biomedical Track
- Ecology/Conservation Track
- General Biology Track

Bachelor of Science – Adolescent to Young Adult Life Science
  (see degree requirements listed under Education)

Bachelor of Arts or Science – Minor in Biology

Associate of Science – Concentration in Biology

Learning Outcomes

The successful student is able to:

- Explain, using appropriate terminology, the basic concepts of cell/molecular biology, ecology, evolution, and genetics.
- Explain the fundamentals of scientific inquiry, interpret the results of scientific investigations, and draw reasonable conclusions from data.
- Complete critical reading of original and secondary source material.
- Communicate, in oral and written form, biological technical information.
- Relate models, theories and concepts to real world phenomena.
- Use standard biological equipment appropriately and safely, and explain the limitations of the equipment.

Facilities

The Kidd Math/Science Center opened in 1985. With an award winning masonry design, the center’s front doors open to a glass atrium with live plants and a trickling pond. A spacious lobby follows with comfortable studying facilities. Our center houses three large chemistry labs, three biology labs, one physics lab, one computer lab, lecture rooms, faculty offices and a large bent glass greenhouse that enhances the view of our campus. McKenzie Hall opened in 1997 providing math/science students along with the nursing students, two large lecture halls, a variety of lecture rooms, an anatomy lab, three computer labs, faculty offices and a conference room with a beautiful view of campus and the surrounding landscape.

Degree Requirements

Bachelor of Science – Biology (2340)

General Education (see page 28) must include:
- MTH 21404 Introductory Probability and Statistics .......... 4
- Select one of the following two courses:
  - CS 10103 PC Applications or
  - CS 20104 Computer Programming I .................. 3-4

Total General Education hours ........................................... 42

Biomedical Track:
- BIO 12104 Biology I ............................................ 4
- BIO 12204 Biology II .......................................... 4
- BIO 20303 Ecology ........................................... 3
- BIO 21304 Microbiology ..................................... 4
- BIO 21404 Human Anatomy and Physiology I .......... 4
- BIO 36404 Genetics ............................................ 4
- BIO 37404 Cell Biology ........................................ 4
- BIO 38402 Immunology ....................................... 2
- BIO 40303 Evolution .......................................... 3
- BIO 47301 Seminar ........................................... 1
- CHM 26303 Organic Chemistry Laboratory I .......... 2
- CHM 26305 Organic Chemistry Theory I ............. 3
- CHM 27204 Organic Chemistry Laboratory II ........ 2
- CHM 27303 Organic Chemistry Theory II ............ 3

  BIO Electives 30000-40000 ........................................ 14

  Must include the following:
  - BIO 34404 Introduction to Biochemistry .............. 4
  - BIO 43304 Parasitology .................................... 4

Ecology/Conservation Track
- BIO 12104 Biology I ............................................ 4
- BIO 12204 Biology II .......................................... 4
- BIO 20303 Ecology ........................................... 3
- BIO 21304 Microbiology ..................................... 4
- BIO 35304 Field Biology and Methodology ............ 4
- BIO 36404 Genetics ............................................ 4
- BIO 40303 Evolution .......................................... 3
- BIO 47301 Seminar ........................................... 1
- CHM 15005 General Chemistry I .......................... 5
- CHM 15505 General Chemistry II ........................ 5
- NSC 22303 Environmental Science ...................... 3
- BIO Electives 30000-40000 ........................................ 14

  Must include at least 2 of the following:
  - BIO 31303 Advanced Ornithology (Hocking) ....... 3
  - BIO 31404 Vertebrate Zoology .......................... 4
  - BIO 32303 Mammalogy (Hocking) .................... 3
  - BIO 33404 Invertebrate Zoology ....................... 4
  - BIO 35403 Field Botany .................................... 3
  - BIO 36303 Local Flora (Hocking) .................... 3
  - BIO 41304 Limnology (Hocking) ..................... 4
  - BIO 45303 Conservation Biology (Hocking) ....... 3
**General Biology Track**

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**Personal elective hours** ................................................. 20-22

**Total required hours for degree** ........................................ 126

**Bachelor of Arts or Science – Minor in Biology (2330)**

General Education (see page 28) must include:

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**Minor Area required courses:**

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**Major and elective hours** ................................................. 68

**Total required hours for degree** ........................................ 126

**Associate of Science Degree – Concentration in Biology**

General Education (see page 28) must include:

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**Major Area required courses:**

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**Total required hours for degree** ........................................ 64-67

**Adolescent to Young Adult Life Sciences (40433)**

(see degree requirements listed under Education)
Mission Statement
The Emerson E. Evans School of Business is a student-centered, business school dedicated to opening learning opportunities for students in leadership, collaboration, and business management. To successfully meet the challenges of the global market place, students develop partnerships with business owners and leaders to explore business operations and opportunities.

Degrees Offered
Bachelor of Science – Business Management
Associate of Applied Business – Business Management
Bachelor of Arts or Science – Minor in Business Management
Certificate – Small Business Management

Learning Outcomes
Students will:

- The graduating student will be able to demonstrate core business proficiencies in the areas of accounting, economics, management, finance, marketing, international business, and information technology.
- Demonstrate research & communication skills through written reports & papers, oral presentations, and class discussion.
- Demonstrate ethical and social responsibility values and leadership qualities conducive to success within a business environment.
- Think clearly, reason logically, arrive at one’s own conclusions through one’s own observations, interpret data, analyze situations, evaluate evidence, discover principles, resolve problems, read rapidly with understanding, do research, stimulate his/her creative powers, to express one’s ideas orally and in writing.
- Demonstrate an understanding of how each Business area is affected by the global economy.

Facilities
The Bob Evans Farms Hall was built in 2001 and is the home of the Emerson E. Evans School of Business. A distinctive tower creates a central sky light in the center of the building which houses three computer labs, faculty offices, a student lounge area, large and small meeting rooms, as well as class rooms.

Accreditation
The Emerson E. Evans School of Business is accredited through the International Assembly of Colleges in Business Education (IACBE).

Additional Assessment Requirements for Business Majors:
All business students must take the following pre and post tests prior to graduation.

- Associate Degree – Pre-Test First Semester & Post-Test prior to graduation.
- Baccalaureate Degree – Pre-Test First Semester and Post-Test prior to graduation PLUS the Major Field Test in Business or an assigned equivalent.

Degree Requirements
Bachelor of Science – Comprehensive Major in Business Management (3041)
A degree in Business Management opens up a host of possible careers, perhaps more than any other in profit as well as non-profit organizations and government. Possible careers and jobs include business research, investment feasibility studies, banking security trading, insurance, corporate finance, personal work, labor relations, product marketing, international commerce, real estate, etc. Someday the business graduate may start up a small business and be his/her own boss. S/he may manage people in manufacturing, construction, food processing, chemical operations, mining, oil production, government, information systems, a health care facility, an accounting department, a store, restaurant, etc. Many corporate lawyers have undergraduate degrees in Business.

General Education (see page 28) must include:
MTH 21404 Introduction to Probability and Statistics... 4
IT10103 Introduction to Information Technology ......... 3
Total General Education hours................................................. 42

Business Core required courses
ACC 11403 Principles of Accounting I .................. 3
ACC 12403 Principles of Accounting II ............... 3
BM 20403 Principles of Management ................. 3
BM 27403 Introduction to Business Law ............. 3
ECO 11403 Microeconomics ........................... 3
ECO 12403 Macroeconomics ......................... 3
MKT 21403 Principles of Marketing .................. 3
BM 28901 Business Portfolio (2-year Capstone) .... 1
IT 10203 MS Office/Internet......................... 3
FIN 20403 Financial Management .................. 3
FIN 21403 Financial Investment ................... 3
Total Business Core hours ................................................. 31

Major Area required courses
BM 31403 Human Resource Management ........... 3
BM 42403 Organizational Theory .................... 3
BM 44403 International Business .................. 3
BM 46403 Operations Management ................. 3
BM 49102 Internship/Experience in Management .... 2
ECO 31403 Labor Relations .......................... 3
ENT 24403 Small Business Management .......... 3
BM 47903 Strategic Management (4-year Business Capstone) .... 3
ECO 42403 Managerial Economics ................ 3
BM 35203 Employee Compensation ............... 3
BM 22403 Organizational Behavior ............... 3
Total major area hours ......................................................... 32
Personal elective hours ...................................................... 21
Total required hours for degree ............................................ 126

**Associate of Applied Business Degree - Business Management (9221)**

General Education (see page 28) must include:
- HUM 20103 Humanities ................................................... 3
- HIS 13103 World Civilization I ...............................3
- HIS 12203 American History II ....................................3
- ECO 11103 Contemporary Economics ..........................3
- COM 11103 Fund of Speech Communication ..................3
- ENG 11103 Composition I ...............................................3
- ENG 11203 Composition II ............................................ 3
- HPE 10101 Human Wellness .......................................... 1
- IT 10103 Introduction to Information Technology ............3
- LA 10101 Freshman Success .......................................... 1
- MTH 21404 Intro to Probability & Statistics ....................4
Total General Education hours ........................................... 30

Personal Electives .................................................................. 9

Business Management Degree Courses required
- BM 20403 Principles of Management ............................. 3
- ENT 24403 Small Business Management ....................... 3
- ACC 11403 Principles of Accounting I ............................3
- ACC 12403 Principles of Accounting II .........................3
- BM 27403 Introduction to Business Law .........................3
- MKT 21403 Principles of Marketing .............................. 3
- BM 22403 Organizational Behavior ............................... 3
- BM 28901 Business Portfolio (2-year Capstone) ............ 1
Total Business Management Degree hours .......................... 22

Total required hours for degree ............................................ 66

**Bachelor of Arts or Science – Minor in Business Management (3031)**

The minor is designed for students majoring in programs including a BS degree in Business as a means of providing expanded career options.

General Education (see page 28) must include:
- MTH 21404 Introductory Probability and Statistics ......... 4
- IT 10103 Introduction to Information Technology ............3
Total General Education hours ............................................ 42

Minor Area required courses
- BM 20403 Principles of Management ............................. 3
- BM 31403 Human Resource Management ..................... 3
- BM 32403 Organizational Behavior ............................... 3
- BM 27403 Introduction to Business Law .........................3
- BM 44503 Project Management ..................................... 3
- MKT 21403 Principles of Marketing .............................. 3
Total minor area hours ...................................................... 18

Major and elective hours .................................................... 66

Total required hours for degree ............................................ 126

**Certificate – Small Business Management (92011)**

Business Management Degree Courses
- ACC 11403 Principles of Accounting I ......................... 3
- MKT 21403 Principles of Marketing ............................. 3
- ENT 24403 Small Business Management ....................... 3
- BM 20403 Principles of Management ............................ 3
- BM 27403 Introduction to Business Law ......................... 3
Total Business Management Degree hours .......................... 15

Total required hours for certificate ..................................... 15
Mission Statement

The mission of the Chemistry Department at the University of Rio Grande is to provide a stimulating and positive environment for the discovery, integration, and communication of chemistry. Whether a career in the chemical sciences is desired or the pursuit of graduate or professional studies is preferred, students are prepared for future endeavors by rigorous intellectual stimulation, the development of practical laboratory skills, and the provision of opportunities for scholarly research. This environment of intellectual inquiry and professional growth is supported by the faculty’s commitment to teaching, research, and service, and is underscored by following the guidelines of the American Chemical Society. Also this program complements the mission of the University, the College of Arts and Sciences, and the School of Sciences by contributing to the scientific and technological literacy, critical thinking skills and informed decision-making abilities of students from all fields and from all walks of life.

Degrees Offered

Bachelor of Science – Chemistry
Associate of Science – Chemistry
Bachelor of Science or Arts Degree – Minor in Chemistry

Learning Outcomes

The successful student will:

- Demonstrate problem-solving skills to provide solutions to theoretical and experimental problems in chemistry.
- Apply the fundamental concepts of the five foundational areas of chemistry: analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry.
- Utilize various measuring techniques in the laboratory to perform accurate and precise quantitative measurements.
- Interpret experimental results and draw reasonable conclusions.
- Utilize computers to support the learning and practice of chemistry (data acquisition and analysis, access to information, preparation of reports, and molecular modeling).
- Explain the relevance of chemistry to other fields and society.
- Demonstrate scientific literacy and professional ethics.

Facilities

The Kidd Math/Science opened in 1985. With an award winning masonry design, the center’s front doors open to a glass atrium with live plants & a trickling pond. A spacious lobby follows with comfortable studying facilities. Our center houses three large chemistry labs, three biology labs, one physics lab, one computer lab, lecture rooms, faculty offices and a large bent glass greenhouse that enhances the view of our campus. McKenzie Hall opened in 1997 providing math/science students along with the nursing students two large lecture halls, a variety of lecture rooms, an anatomy lab, three computer labs, faculty offices and a conference room with a beautiful view of campus and the surrounding landscape.

Degree Requirements

Bachelor of Science – Chemistry (2442)

General Education (see page 28) must include:
- BIO 12104 Biology I .................................................. 4
- CHM 15005 General Chemistry I.............................. 5
- MTH 21404 Introductory Probability and Statistics......... 4
- PHR 35203 Philosophy of Science .............................. 3
Total General Education hours...................................... 43

Major Area required hours:
- CHM 15505 General Chemistry II .............................. 5
- CHM 26202 Organic Chemistry Laboratory I ................. 2
- CHM 26303 Organic Chemistry Theory I.................... 3
- CHM 27202 Organic Chemistry Laboratory II ............... 2
- CHM 27303 Organic Chemistry Theory II .................... 3
- CHM 28303 Instrumental Analysis ................................ 3
- CHM 30302 Integrated Chemistry Laboratory I ............. 2
- CHM 31202 Integrated Chemistry Laboratory II ............ 2
- CHM 32303 Inorganic Chemistry ................................ 3
- CHM 34404 Introduction to Biochemistry .................... 4
- CHM 40303 Physical Chemistry Theory I................... 3
- CHM 41303 Physical Chemistry Theory II ................... 3
- CHM 47001-04 Senior Research I ............................... 1-4
- CHM 47502-04 Senior Research II ............................. 2-4
- MTH 15105 Calculus I .............................................. 5
- MTH 15204 Calculus II ............................................. 4
- PHY 17505 General Physics I with Algebra .................. 5
- PHY 18505 General Physics II with Algebra .................. 5
- CHM Electives 30000-40000 ......................................... 3
Total Major Area hours.................................................. 67-72

Personal elective hours .............................................. 11-16
Total required hours for degree..................................... 126

Associate of Science – Chemistry (2421)

General Education (see page 28) must include:
- CHM 15005 General Chemistry I ................................ 5
- MTH 21404 Introductory Probability and Statistics ........ 4
- CS 10103 PC Applications ........................................... 3
Total General Education hours...................................... 46

Major Area required hours
- CHM 15505 General Chemistry II .............................. 5
- CHM 26202 Organic Chemistry Laboratory I ................. 2
- CHM 26303 Organic Chemistry Theory I .................... 3
- CHM 27202 Organic Chemistry Laboratory II ............... 2
- CHM 27303 Organic Chemistry Theory II .................... 3
Total Major Area hours.................................................. 19

Total required hours for degree..................................... 65
Bachelor of Arts or Science – Minor in Chemistry (2430)

General Education (see page 28) ........................................... 42-43

Minor Area minimum required hours:
- CHM 26202 Organic Chemistry Laboratory I .................. 2
- CHM 26303 Organic Chemistry Theory I .................. 3
- CHM 27202 Organic Chemistry Laboratory II ............. 2
- CHM 27303 Organic Chemistry Theory II ............. 3
- CHM Electives 30000-40000 .................................. 5

Total minor area hours .................................................. 15

Major and elective hours .............................................. 68-69

Total required hours for degree ................................. 126
Mission Statement

The overall goals of the Communication majors are to provide professional training in presentational, written and technological media skills through a hybrid approach between disciplines; primarily Communication and Journalism. Together, these disciplines provide a context of a liberal and cultural education. By blending the liberal arts with professional courses the students will be provided with an interdisciplinary curriculum. Thus, the major serves the general education program; provides the opportunity for an associate of arts degree with a concentration in communication; provides courses to meet requirements in other programs; offers courses that are transferable; offers the courses to allow students seeking teaching credentials in, Communications and Journalism and Integrated Language Arts; and can be selected as a concentration within a comprehensive major.

Degrees Offered

Bachelor of Science – Comprehensive Major in Communication
Bachelor of Science – Comprehensive Major in Professional & Business Communication
Associate of Arts – Communication

Learning Outcomes

The successful student will:

- Understand the relationships between communication theory and practical applications in everyday life, including within organizations and social relationships.
- Understand the communication contexts among and between people, rhetoric, ethics and the media.
- Understand how the media influences society, and society the media, and the influences of communication technologies upon those relationships.
- Know the cultural impact of the media environment on the individual.
- Have an awareness of the implications of information technology.
- Have developed well-honed persuasive and presentational skills.
- Have created a professional portfolio of communication materials (rhetorical, print, graphic design, and audio/video works all may be included) and successfully passed a senior exit interview.

Additional outcomes are included on each course syllabi.

Degree Requirements

Bachelor of Science – Comprehensive Major in Communication (0941)

General Education (see page 28) must include:

- COM 11103 Fundamentals of Speech Communication...... 3
- CS 10103 PC Applications........................................... 3
Total General Education hours.............................................. 45

Major Area required courses

- ENG-24803 Comparative World Literature...................... 3
Select one from the following two courses:
  - ENG 25103 American Lit. to the Civil War or
  - ENG 25203 American Lit. since the Civil War................... 3
- ENG 26203 British Literature since the Romantic Era ........... 3
Select one from the following two courses:
  - ENG 21403 Business and Technical Writing or
  - ENG 22103 Creative Writing....................................... 3
- COM 11202 Listening ................................................... 2
- COM 21102 Oral Interpretation....................................... 2
- COM 22103 Small Group Communication.......................... 3
- COM 22204 Argumentation and Debate............................ 4
- COM 25103 Mass Communication Theory........................ 3
- COM 41103 History of American Public Address................ 3
- COM 42103 Communication Law.................................... 3
- COM 41103 History of American Public Address................ 3
- COM 43203 Organizational Communication...................... 3
- JRN 22103 News Writing for Media Publications................. 3
- JRN 22302 Graphics..................................................... 2
- JRN 24103 Intro to Radio and Television Production............. 3
- JRN 32102 Broadcast News Writing.................................. 2
Total major area hours....................................................... 45

Electives (ENG/COM/JRN) at 30000 - 40000 level.................... 20
Personal Electives.................................................................... 16
Total hours needed to graduate............................................. 126

Bachelor of Science – Comprehensive Major in Professional & Business Communication (0947)

General Education (see page 28) must include:

- COM 11103 Fundamentals of Speech Communication...... 3
- CS 10103 PC Applications........................................... 3
Total General Education hours.............................................. 45

Major Area required courses

- COM 11202 Listening ................................................... 2
- COM 22103 Small Group Communication.......................... 3
- COM 22204 Argumentation and Debate............................ 4
- COM 25103 Mass Communication Theory........................ 3
- COM 37703 Communication Seminar............................... 3
- COM 41103 History of American Public Address................ 3
- COM 42103 Communication Law.................................... 3
- COM 43203 Organizational Communication...................... 3
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<td>SOC 36103 Social Research</td>
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<td>Select one from the following six courses:</td>
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<td>MKT 36403 Professional Comm. &amp; Business Networking</td>
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<tr>
<td>MKT 37403 Advertising and Promotion</td>
<td></td>
</tr>
<tr>
<td>ART 20304 Web Graphics</td>
<td></td>
</tr>
<tr>
<td>CS 33403 Web Programming &amp; Development</td>
<td></td>
</tr>
<tr>
<td>IT 30403 Web Development</td>
<td></td>
</tr>
<tr>
<td>Total one course, three credit hours each</td>
<td>3</td>
</tr>
<tr>
<td>Total major area hours</td>
<td>56</td>
</tr>
</tbody>
</table>

Personal electives: 25

Total hours needed to graduate: 126

---

**Associate of Art – Communication (0921)**

General Education (see page 28) must include:
- COM 11103 Fundamentals of Speech Communication: 3
- CS 10103 PC Applications: 3

Total General Education hours: 45

Major Area required courses:
- COM 21102 Oral Interpretation: 2
- COM 22103 Small Group Communication: 3
- COM 22204 Argumentation and Debate: 4
- COM 25103 Mass Communication Theory: 3
- JRN 22103 News Writing for Media Publications: 3

Total major area hours: 15

Personal electives: 4

Total hours needed to graduate: 64
Mission Statement

The computer is a tool that can increase the efficiency and productivity of individuals in many fields of endeavor. The Computer Science curriculum is designed to provide students with the necessary coursework to complete either a Major or a Minor in Computer Science (Bachelor of Science). Students are prepared to pursue a career in the-computer industry in the areas of programming, networking, web development, software design, etc. Students are also prepared to pursue graduate education in Computer Science.

Degrees Offered

Bachelor of Science – Computer Science

Bachelor of Science/Arts – Minor in Computer Science

Learning Outcomes

The successful student will:

• Use critical thinking and logic skills to formulate and solve problems related to programming and software development.

• Write code in a variety of common programming languages such as Java, C, Python, etc.

• Explain ethical behavior as it relates to programming and operating computers.

• Explain fundamental concepts relating to computer operating systems, software, hardware, architecture, communication, and networking.

• Analyze, design, develop, and implement a database project, and be able to manage and administer database management systems.

Facilities

The Kidd Math/Science Center opened in 1985. With an award winning masonry design, the center’s front doors open to a glass atrium with live plants & a trickling pond. A spacious lobby follows with comfortable studying facilities. Our center houses three large chemistry labs, three biology labs, one physics lab, one computer lab, lecture rooms, faculty offices and a large bent glass greenhouse that enhances the view of our campus. McKenzie Hall opened in 1997 providing math/science students along with the nursing students, two large lecture halls, a variety of lecture rooms, an anatomy lab, three computer labs, faculty offices and a conference room with a beautiful view of campus and the surrounding landscape.

Degree Requirements

Bachelor of Science – Major in Computer Science (3046)

General Education (see page 28) must include:

MTH 15105 Calculus I ................................................................. 5
Total General Education hours ........................................... 42

Major Area required courses:

CS 20104 Computer Programming I ........................................ 4
CS 20204 Computer Programming II ..................................... 4
CS 22003 Data Structures ..................................................... 3
CS 31503 Programming Languages ....................................... 3
CS 32003 Operating Systems .................................................. 3
CS 33403 Web Programming & Development .......................... 3
CS 41503 Advanced Database ............................................... 3
IT 20303 DBMS Concepts ..................................................... 3
IT 20403 Web Development .................................................. 3
MTH 25403 Discrete Mathematics .......................................... 3
CS Electives from 3000/4000 level .......................................... 8
Total Major Area hours ....................................................... 40
Selected Minor and Personal electives .................................... 44
Total required hours for degree ............................................ 126

Bachelor of Science or Arts - Minor in Computer Science (3032)

General Education (see page 28) must include:

CS 20104 Computer Programming I ........................................ 4
CS 20204 Computer Programming II ..................................... 4
IT 20303 DBMS Concepts ..................................................... 3
CS Electives from 3000/4000 level .......................................... 7
Total General Education hours ............................................. 42

Required Area Major courses ............................................... 40
Selected Minor and Personal electives .................................... 44
Total required hours for degree ............................................ 126
Learning Outcomes

Upon completion of the DMS Program, the student is able to:

- Correlate clinical signs and symptoms with pathology.
- Apply critical thinking to real patient scenarios and choose an appropriate course of action.
- Identify and describe the basic concepts of Sonographic Physics and Instrumentation.
• Only students who have successfully completed the Associate Degree Program or its equivalent and have been recommended by DMS faculty based on academic and clinical performance will be admitted to the Bachelor Degree Program.

Academic Requirements:

• Completion of the first year curriculum. College cumulative GPA of 2.5 or higher.
• ACT composite score of 20 or higher, with preferred math and science scores of 20 or higher. (If you have been out of high school for 5 years or more, you have the option of taking the ACT test or receiving four points for “life experience.”
• Completion of the first year curriculum, with at least a “C” in Physics, Principles of Human Anatomy & Physiology I (or Biology), and Principles of Human Anatomy & Physiology II.
• Completed one unit of high school chemistry and biology or college-level equivalent, with a minimum grade of “C.”
• Current CPR certification (Students accepted into the DMS program will take CPR as a class during the first summer semester of the program.)

Health Requirements:

• Vision Capabilities: Normal or corrected refraction within the range of 20/20 to 20/60; adequately view sonograms, including identifying 16 shades of gray and color distinctions.
• Hearing Capabilities: Possess normal or corrected hearing abilities within 0-45 decibel range.
• Motor Capabilities: Maneuver sonographic equipment without assistance; assist in lifting patients using proper body mechanics; stand for extended periods of time; walk long distances without assistance while maneuvering sonographic equipment or transporting patients; type with one hand while scanning with the other.
• Language Capabilities: Communicate verbally with patient and other medical personnel; it is recommended that a second language is possessed or attempted.
• Mental Capabilities: Think and act quickly in emergency situations; cope with stress; comprehend daily work activities; understand all pathology needed to present case to physician.

Other Requirements:

• Students must consent to a professional and confidential background check that includes but is not exclusive to social security number verification, criminal search, violent sexual offender and predator registry search, and employment verification. The background search will be initiated upon acceptance into the DMS program.
• Students must consent to and pay for random drug testing as required by various clinical affiliations

Admission Procedures:

Step One:

To be considered for admission into the DMS program, students must have met all of the above requirements. URG/RGCC must have a copy of your high school and/or college transcripts, ACT scores, and the Allied Health Technology-DMS Program Application by April 1 of the year you would like to enter the DMS program’s second year.

Acceptance into the DMS program is very competitive. The number admitted into the second year will be determined by the number of clinical sites available. Applicants will be objectively scored to determine the top candidates. Cumulative GPA, Physics 10404, and ACT scores will account for 50% of the admission criteria, based on the following point system:

<table>
<thead>
<tr>
<th>College*GPA (Cumulative):</th>
<th>4.0 = 10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.8 = 9</td>
</tr>
<tr>
<td></td>
<td>3.5 = 8</td>
</tr>
<tr>
<td></td>
<td>3.2 = 7</td>
</tr>
<tr>
<td></td>
<td>3.0 = 6</td>
</tr>
<tr>
<td></td>
<td>2.8 = 5</td>
</tr>
<tr>
<td></td>
<td>2.5 = 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACT (Cumulative)*:</th>
<th>30+ = 10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>29-28 = 9</td>
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<tr>
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<td>27-26 = 8</td>
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<td></td>
<td>25-24 = 7</td>
</tr>
<tr>
<td></td>
<td>23-22 = 6</td>
</tr>
<tr>
<td></td>
<td>21 = 5</td>
</tr>
<tr>
<td></td>
<td>20 = 4</td>
</tr>
</tbody>
</table>

| Physics 10404: | A = 5 |
|               | B = 4 |
|               | C = 1 |

*Any applicant who has been out of school for five (5) years or more and has not taken the ACT will not be required to take it. The applicant will be awarded four (4) points for life experience. Or if the applicant wishes to take the ACT and submit the scores, s/he may do so.

No one with less than a “C” in Physics 10404 or its equivalent will be admitted into the program. No one with less than a “C” in BIO 10104 Principles of Human Anatomy & Physiology I and Bio 10204 Principles of Human Anatomy and Physiology II will be admitted into the program.

Meeting all of the above requirements does not mean automatic admission/acceptance into the program nor does it guarantee an interview.

Step Two:

The applicants with the highest scores will be scheduled for an interview, which will count for 50% of the admission criteria. The interview process will consist of a selection committee who will interview and rank these top applicants. The selection committee’s decision is based upon the submitted academic achievements and the interview process to determine who is most likely to succeed in the program.

The interview process will take place in May of each year. After the interview process, applicants will be selected for the second year of the DMS program that will begin with the summer semester.
Students selected for the Diagnostic Medical Sonography program must, prior to the beginning of clinical classes:

- Submit complete childhood immunization and booster records.
- Submit proof of varicella zoster live-virus vaccine or reliable history of varicella (chicken pox) or serologic evidence of immunity.
- Submit proof of receiving Hepatitis B vaccine series.
- Submit a completed DMS Physical Examination and Medical History form. Form will be provided.
- Submit proof of CPR training.

ADA Statement:

If a student wishes to be identified as having a physical, mental, or learning disability, that may or may not require reasonable accommodation(s), he/she must register with the Office of Accessibility. These registered students should identify themselves to their instructors and provide a written statement from the Accessibility Office that indicates the appropriate accommodations. The process of a student self-proclaiming the need for accommodation should occur as early in the semester as possible. The Office of Accessibility phone is 740-245-7339 and is located in Rhodes Hall Room 116.

Notice of Non-discriminatory Policy:

It is the policy of the University of Rio Grande and Rio Grande Community College not to discriminate on the basis of gender, religion, or race in the educational programs, activities, or employment policies as required by Title IX of the 1972 Education Amendments. Inquiries regarding compliance with Title IX may be directed to the Affirmative Action Office of the University and the Community College, 740 245-7228, or to the Director of the Office for Civil Rights, Department of Health, Education, and Welfare, Washington, D.C.

Furthermore, the University of Rio Grande and Rio Grande Community College affirm that policies and practices relating to housing, academic and social life, and employment are applied without regard to race, color, gender, religion, disability, age, marital status, national or ethnic origin, socioeconomic status, or political affiliation. Inquiries in this regard should be directed to the President of the University of Rio Grande and Rio Grande Community College.

Associate of Applied Science – Diagnostic Medical Sonography: General Sonography Major (93204)

General Education required courses

AHC 10101 Introduction to Allied Health Professions* ....1
AHC 10202 Standards of Patient Care .............................2
AHC 10301 Computers in Allied Health ..........................1
AHC 13302 Medical Terminology I ...............................2
BIO 10104 Principles of Anatomy & Human Physiology I 4
BIO 10204 Principles of Anatomy & Human Physiology II 4
COM 11103 Fundamentals of Speech ............................3
ENG 11103 Composition I ..........................................3
Select one of the following two courses
ENG 11203 Composition II or
ENG 21403 Business/Technical Writing ..........................3
LA 10101 Freshman Success .......................................1
MTH 11403 Intermediate Algebra .................................3
PHY 10404 Physics .....................................................4
Select one of the following two courses
PSY 11103 General Psychology or
SSC 11103 Intro to Social Science ...............................3
RAD 10302 Sectional Anatomy .....................................2
Total General Education hours .....................................36

Major Area required courses

DMS 20503 Principles of General Sonography ..........3
DMS 21003 Physics and Instrumentation I ...............3
DMS 21104 Abdominal Sonography I .......................4
DMS 21203 Gynecological Sonography I .................3
DMS 21301 Seminar I .................................................1
DMS 21503 General Sonography Practicum I ............3
DMS 22003 Physics and Instrumentation II ..............3
DMS 22103 Abdominal Sonography II .....................3
DMS 22204 Obstetrical Sonography .........................3
DMS 22301 Seminar II ............................................4
DMS 22503 General Sonography Practicum II ............3
DMS 22601 Human Pathophysiology .......................1
DMS 23504 Sonography Practicum III .......................3
DMS 23601 Registry Review ..............................1
DMS 23701 Breast Sonography .................................1
Total major area hours .............................................38

Total required hours for degree ..................................74

*Prerequisite course for all Allied Health majors. Not included in curriculum totals.

Associate of Applied Science – Diagnostic Medical Sonography: Cardiovascular Sonography Major (93204)

General Education required courses

AHC 10101 Introduction to Allied Health Professions* ....1
AHC 10202 Standards of Patient Care .............................2
AHC 10301 Medical Terminology I ...............................2
BIO 10104 Principles of Human Anatomy & Physiology I 4
BIO 10204 Principles of Human Anatomy & Physiology II 4
COM 11103 Fundamentals of Speech ............................3
ENG 11103 Composition I ..........................................3
Select one of the following two courses
ENG 11203 Composition II or
ENG 21403 Business/Technical Writing ..........................3
LA 10101 Freshman Success .......................................1
MTH 11403 Intermediate Algebra .................................3
PHY 10404 Physics .....................................................4
Select one of the following two courses
PSY 11103 General Psychology or
SSC 11103 Intro to Social Science ...............................3
RAD 10302 Sectional Anatomy .....................................2
Total General Education hours .....................................36

Major Area required courses

DMS 20503 Principles of Cardiovascular Sonography ......3
DMS 21003 Physics and Instrumentation I ......................3
DMS 22003 Physics and Instrumentation II ....................3
DMS 22601 Human Pathophysiology ............................1
DMS 23301 Cardiovascular Seminar I ..........................3
DMS 24003 Echocardiography I .................................3
DMS 24503 Cardiovascular Practicum I ..........................3
DMS 25004 Echocardiography II .................................4
DMS 25503 Cardiovascular Practicum II .......................3
DMS 28004 Vascular Sonography I ..............................3
DMS 29003 Vascular Sonography II ..............................3
DMS 24301 Cardiovascular Seminar II ..........................1
DMS 26002 Pediatric Echocardiography .....................2
DMS 24601 Cardiovascular Registry Review ....................1
DMS 26504 Cardiovascular Practicum II .......................4
Total major area hours .............................................39

Total required hours for degree ..................................75

*Prerequisite course for all Allied Health majors. Not included in curriculum totals.
The clinical education courses will be conducted at a variety of hospitals, clinics, and diagnostic imaging centers. Students are responsible for their own transportation to and from the various clinical education sites. The student will not be scheduled for more than 40 hours per week, which includes classes and clinical education rotations.

**Bachelor of Science – Diagnostic Medical Sonography (7943) (for students with an associate degree in General Sonography)**

**Associate Degree in General Sonography** ........................................... 74

<table>
<thead>
<tr>
<th>General Education required courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 33103 Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>BM 20403 Principles of Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BM 31403 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BM 35203 Employee Compensation</td>
<td>3</td>
</tr>
<tr>
<td>HPE 10101 Wellness</td>
<td>1</td>
</tr>
<tr>
<td>MTH 21404 Intro Probability &amp; Statistics</td>
<td>4</td>
</tr>
<tr>
<td>SPA 11103 Elementary Spanish I*</td>
<td>3</td>
</tr>
<tr>
<td>HPE Activity Elective</td>
<td>1</td>
</tr>
<tr>
<td>HUM elective courses</td>
<td>6</td>
</tr>
<tr>
<td>PHR Medical Ethics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total General Education hours</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

**Major Area required courses**

| DMS 36504 Cardiovascular Practicum III | 4 |
| DMS 35004 Echocardiography II         | 4 |
| DMS 33301 Cardiovascular Seminar I    | 1 |
| DMS 34003 Echocardiography I          | 3 |
| DMS 34503 Cardiovascular Practicum I   | 3 |
| DMS 34601 Cardiovascular Registry Review | 1 |
| DMS 35503 Cardiovascular Practicum II  | 3 |
| DMS 36002 Pediatric Echocardiography  | 2 |
| DMS 48802 Selected Topics in DMS      | 2 |
| DMS 38004 Vascular Sonography I       | 4 |
| DMS 39003 Vascular Sonography II      | 3 |
| DMS 34301 Cardiovascular Seminar II   | 1 |
| **Total major area hours**            | 31 |
| **Total required hours for degree**   | 135 |

* Spanish recommended, but an alternate language may be substituted.

**Bachelor of Science – Diagnostic Medical Sonography (7943) (for students with an associate degree in Cardiovascular Sonography)**

**Associate Degree in Cardiovascular Sonography** ........................................... 75

<table>
<thead>
<tr>
<th>General Education required courses</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 33103 Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>HPE 10101 Wellness</td>
<td>1</td>
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<tr>
<td>HPE Activity elective</td>
<td>1</td>
</tr>
<tr>
<td>BM 20403 Principles of Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BM 31403 Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BM 35203 Employee Compensation</td>
<td>3</td>
</tr>
<tr>
<td>MTH 21404 Introductory Probability &amp; Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PHR 21403 Medical Ethics</td>
<td>3</td>
</tr>
<tr>
<td>SPA 11103 Elementary Spanish I*</td>
<td>3</td>
</tr>
<tr>
<td>HUM elective courses</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total General Education hours</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Major Area required courses</th>
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</thead>
<tbody>
<tr>
<td>DMS 41104 Abdominal Sonography I</td>
<td>4</td>
</tr>
<tr>
<td>DMS 42103 Abdominal Sonography II</td>
<td>3</td>
</tr>
<tr>
<td>DMS 41203 Gynecological Sonography</td>
<td>3</td>
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<tr>
<td>DMS 41301 Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>DMS 41503 General Sonography Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>DMS 42204 Obstetrical Sonography</td>
<td>4</td>
</tr>
<tr>
<td>DMS 42503 General Sonography Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>DMS 48802 Selected Topics in DMS</td>
<td>2</td>
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<tr>
<td>DMS 42301 Seminar II</td>
<td>1</td>
</tr>
<tr>
<td>DMS 43504 General Sonography Practicum III</td>
<td>4</td>
</tr>
<tr>
<td>DMS 43601 Registry Review</td>
<td>1</td>
</tr>
<tr>
<td>DMS 43701 Breast Sonography</td>
<td>1</td>
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<tr>
<td><strong>Total major area hours</strong></td>
<td>30</td>
</tr>
<tr>
<td><strong>Total required hours for degree</strong></td>
<td>135</td>
</tr>
</tbody>
</table>

* Spanish recommended, but an alternate language may be substituted.

**DMS Academic Progression Requirements:**

- All DMS courses must be taken in sequential order.
- The student must receive a minimum of a C- (75%) or better in all DMS courses to continue.
- A minimum cumulative GPA of 2.0 must be maintained throughout the program.
- Students must successfully complete the associate degree program in order to be admitted into the bachelor’s degree program.

Failure to meet any of the above Diagnostic Medical Sonography requirements will result in the student’s dismissal from the program. The student may reapply to the program the following calendar year.

**Additional Information:**

Information about admission policies, transfer credit, tuition and fees, refund policies, academic calendars, academic policies, graduation requirements, and student services can be found in the URG/RGCC Course Catalog, which is available from the Admissions Office.

For further information, individuals interested in the Diagnostic Medical Sonography Program are advised to contact the DMS Program Director at 740-245-7139 or the Office of Admissions at the address listed below.

Office of Admissions
University of Rio Grande/Rio Grande Community College
P.O. Box 500
Rio Grande, Ohio 45674-0500

Applicants may also contact the University by telephone at (740) 245-5353 or 1-800-282-7201 (Toll free in OH, WV, KY and PA) or by fax (740) 245-7260.

To view and/or print a copy of the Diagnostic Medical Sonography Program Fact Sheet, which include a suggested course sequence, and/or the Diagnostic Medical Sonography Program application, visit the School of Allied Health website at www.rio.edu.

The University of Rio Grande/Rio Grande Community College reserves the right to change the admission requirements or policies. All requirements will be periodically updated.
Mission Statement

The School of Education at URG/RGCC holds a shared vision for its program, candidates and community. The URG/RGCC Bunce School of Education provides a challenging environment in which teacher candidates develop into professional individuals and are sensitive to Appalachian values. Our institution offers access to a professional career through a unique community college/private university configuration. An example of Rio Grande’s unique nature is that through a particular program alignment, teacher candidates at URG/RGCC may opt for some combination of a two, plus two, plus two program which will take them almost seamlessly from a two-year Associate’s Degree to a four year Bachelor’ Degree and into a two year Master’s program. This allows the University of Rio Grande/ Rio Grande Community College to open “Windows to the Future” for our candidates at all degree and licensure levels.

Degrees Offered

Master of Education – Intervention Specialist in Mild/Moderate
Master of Education – Intervention Specialist in Early Childhood
Bachelor of Science – in the licensure areas of: Early Childhood, Middle Childhood (Science, Math, Language Arts and Social Studies), Adolescent to Young Adult (Social Studies, Language Arts, Math, Life Science and Physical Science), Multi-Age (Physical Education, Music and Visual Arts), and Intervention Specialist: Mild/Moderate.

Bachelor of Science – Sports and Exercise Studies
Associate of Applied Science – Physical Education,
Pre-Kindergarten and Career-Technical Teaching
Bachelor of Arts or Science – Minor in Health

Learning Outcomes

The student will be able to:

- Demonstrate an understanding of student learning and development as well as a respect for the diversity of the students they will teach.
- Demonstrate knowledge and an understanding of the content area(s) for which they have instructional responsibility.
- Demonstrate their ability to use varied assessments to inform instruction, evaluate and ensure student learning.
- Plan and deliver effective instruction which will advance the learning of each of their students.
- Create learning environments that promote high levels of learning and achievement for all students.
- Demonstrate the ability to collaborate and communicate with students, parents, other educators, administrators and the community to support student learning.
- Assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

Accreditation

The University of Rio Grande is accredited by The Higher Learning Commission (HLC) of The North Central Association of Colleges and Schools (NCA). The Teacher Education unit has been approved by the Ohio Department of Education and accredited by NCATE (National Council for the Accreditation of Teacher Education) at the Initial and Advanced levels. Additionally, some licensure areas are nationally recognized by their respective Specialized Professional Association; these are noted within each licensure area.

Teacher Education Program

The Teacher Education Program includes all programs within the School of Education that lead to teacher licensure. These programs are: Early Childhood, Middle Childhood, Adolescent to Young Adult, Multi-Age, Intervention Specialist - Mild/Moderate & Early Childhood, Early Childhood Associate, and Career-Technical. The Career-Technical Licensure program is available for individuals with specialized work experience who wish to teach within a Career-Technical school setting. The Sport and Exercise Studies curriculum provides students with an opportunity to study Sport and Physical Fitness without seeking teacher licensure.

Teacher Education Conceptual Framework

The Conceptual Framework of the Teacher Education Program is to produce dynamic, professional educators who open “Windows to the Future.” The philosophy and purpose is summarized by three concepts: best practices for teaching and learning; the understanding and teaching to the diversity of learners; and developing a sense of efficacy. The curriculum and assessment revolve around these three concepts under which the Ohio Department of Education (ODE), Ohio Teacher Standards and Interstate New Teacher Assessment and Support Consortium (INTASC) standards fall. Each teacher education program area has matched its specialized professional association standards with ODE and INTASC principles. These three concepts are windows of opportunity that offer teacher candidates a view of their future as classroom teachers.

Approved Licensure Areas

The University of Rio Grande has program approval from the Ohio Department of Education to offer teacher licensure in the following areas:

- Career Technical 27 Hour - ages 12 - 21 (grades 7-12)
- Pre-Kindergarten
- Early Childhood - ages 3 - 8 (pre-kindergarten through grade 3)
- Middle Childhood - ages 8 - 14 (grades 4 through 9)

Must select two of the following concentrations:

- Language Arts
- Mathematics
- Science
- Social Studies
Adolescent to Young Adult-ages 12 - 21 (grades 7-12)
Must select one of the following licensure areas:
- Integrated Language Arts
- Integrated Social Studies
- Integrated Mathematics
- Life Sciences
- Physical Sciences
- Intervention Specialist
  (Mild to Moderate - Graduate or Undergraduate) K-12
  (Early Childhood - Graduate) PreK-Grade 3
Multi-Age - ages 3 - 21 (grades PreK through 12)
Must select one of the following licensure areas:
- Music
- Physical Education
- Visual Arts

Endorsements

The School of Education at the University of Rio Grande offers an Ohio Department of Education approved Reading Endorsement attachment to the teaching license. This endorsement may be attained by any teacher seeking a license in Early Childhood, Middle Childhood, Intervention Specialist, Adolescent to Young Adult, or Multi-Age Education. This endorsement will qualify the teacher to teach, in addition to the licensure area(s), classes such as Title I Reading and Learning/Study Skills Labs.

In order to obtain the Reading Endorsement, teachers must successfully complete the courses outlined in the Endorsement program, and receive a passing score on the appropriate Praxis II Examination.

Portfolio

A portfolio for teacher candidates is started in EDU 20403 Planning for Instruction. The faculty have developed a portfolio handbook to assist teacher candidates in gathering artifacts during their courses in General Education, Professional Education, and Curriculum Content. The portfolio is developed by the teacher candidates to reflect knowledge, skills, and dispositions centering on the Teacher Education Conceptual Framework. The portfolio is assessed by faculty and external evaluators at benchmarks identified in the Teacher Education Portfolio Handbook. Although the teacher candidates gather artifacts during their entire program, they actually enroll in the portfolio course (EDU 48901 Portfolio) along with clinical practice. During this course the portfolio is given final assessment by faculty and is reorganized into a Professional Portfolio that may be taken for employment interviews.

Admission to the Teacher Education Program

The application for admission to the Teacher Education Program will be completed during the student’s enrollment in EDU 20403 Planning for Instruction. If the application is not approved, the student will not be allowed to enroll in upper level (30000-40000) education (EDU) courses.

To gain admission to the Teacher Education Program, candidates must meet ALL of the following standards:

1. A GPA (GPA) of 3.0 in the following written and oral communication courses: ENG 11103 Composition I, ENG 11203 Composition II, and COM 11103 Fundamentals of Speech.

2. An overall GPA of 2.5 in at least twenty-seven (27) semester hours of the general education coursework.

3. An American College Test (ACT) of at least 21.

4. OR an American College Test (ACT) of 19/20 and Praxis I scores in reading (173), writing (172), and mathematics (172). School of Education requirements may be adjusted periodically to comply with changing state requirements. If a candidate has a Bachelor Degree from a regionally accredited institution, the ACT/PRAXIS I requirement is waived.

5. Submit two essays to be reviewed by faculty: “The URG Conceptual Framework” and “My Philosophy of Education.”

6. The candidate must sign a statement of Good Moral Character as defined in Section 3319.30 of the Ohio Revised Code.

7. The candidate must have a background check (BCI) with clear results.

8. The candidate must have a current, negative TB test.

9. The candidate must have met Portfolio Benchmark I.

10. The candidate will receive written notification of acceptance into the School of Education by the Head of Teacher Education. A candidate who is denied admission will be given reasons for the denial. The candidate has the right to appeal denial to the Faculty Advisory Council for the Teacher Education Program which is chaired by the Head of Teacher Education. Candidates are also able to rewrite essays as needed to make noted corrections or clarifications.

Measures of Academic Aptitude and Achievement

The following methods are used as measures of academic aptitude and achievement for selection and diagnosis of strengths and needs of potential teacher education candidates:

1. GPA (GPA): GPAs will be calculated by the Head of Teacher Education by using institutional transcripts. A 3.0 GPA is required in communication courses (Comp I, Comp II and Speech), and an overall GPA of 2.5 in at least twenty-seven (27) semester hours of the general education coursework.

2. ACT: A composite score of at least 19 on the ACT is required. All students who desire consideration for acceptance into Teacher Education must take the ACT or have a Bachelor Degree. There is no limit to the number of times the student may take the ACT.

3. Utilization of Program Tests: The Praxis I Test is used to provide a standardized measure of knowledge and skills in the areas of reading, mathematics, and writing which are considered essential for successful completion of the Teacher Education Program. School of Education requirements may be adjusted periodically to comply with changing state requirements. A candidate may repeat any part of the test that the candidate did not pass. A scheduled consultation with the Head of Teacher Education is required if the candidate does not pass all areas of the Praxis I Test in two attempts. A score of 21 or greater on the ACT or a Bachelor’s Degree will allow the student to circumvent Praxis I.

4. Essays: Candidates must submit two essays to be reviewed by faculty: “The Conceptual Framework,” and “My Philosophy of Education.” The essays will be reviewed by faculty. If not approved by faculty, the candidate must resubmit the essay or essays.

5. Moral Character Statement: Candidates must sign a statement of Good Moral Character as defined in Section 3319.30 of the Ohio Revised Code. This statement alerts the candidate to the fact that teachers must be of good moral character. Before
clinical Practice, will note the following:

All candidates registering for field experience courses, other than Field Experience...

1. Concerns from the Coordinator of Field Experiences, principal, cooperating teacher, School of Education Faculty or other school personnel indicating unsuccessful field/clinical experiences, or moral character.
2. Concerns from faculty indicating a candidate’s difficulties in URG School of Education Knowledge, Skills, Dispositions, or moral character.

Removal from Teacher Education Program

The Faculty Advisory Council will be chaired by the Head of Teacher Education. The Council may outline a program of improvement or recommend immediate removal from the Teacher Education Program. The candidate may file a grievance as outlined in the University of Rio Grande Student Handbook.

A candidate may be asked to appear before the Faculty Advisory Council for the Teacher Education Program comprised of full-time faculty of Teacher Education to address any one of the following issues:

1. Evidence that the candidate is not of Good Moral Character as defined in Section 3319.30 of the Ohio Revised Code. The state of Ohio will not license anyone convicted of a felony.
2. Failure to maintain a G.P.A. of at least 2.75 in licensure area and/or at least an overall 2.5 GPA for greater than two consecutive semesters.
3. Concerns from the Coordinator of Field Experiences, principal, cooperating teacher, School of Education Faculty or other school personnel indicating unsuccessful field/clinical experiences, or moral character.
4. Concerns from faculty indicating a candidate’s difficulties in URG School of Education Knowledge, Skills, Dispositions, or moral character.

Field Experience

All candidates registering for field experience courses, other than Clinical Practice, will note the following:

1. The teacher candidate must show verification before entering any field experience of a negative T.B. Test. Ohio State Law requires evidence of a negative T.B. Test before entering field experience. The University of Rio Grande Health Services will administer T.B. Tests for enrolled candidates. Candidate must have a current and clear BCI.
2. Candidates will be placed in a cooperating school by the Coordinator of Field Experience. Failure to secure proper placement through the Coordinator of Field Experience will result in the candidate being removed from the placement and/or a drop of two letter grades in the course by the course instructor. Candidate requests for placements will be considered, but the placement is made by the Coordinator of Field Experience and the school district administrators.

3. Candidates must complete an application for each field placement at the time of class registration. In many school districts, field placement requests are sent to area administrators who must approve the requests and often must send the requests to the Board of Education for the district. This process is time consuming. If a candidate does not complete an application for field placement until the second week of the semester, the Coordinator of Field Experience may not be able to find a placement for the student.
4. Each field experience will have an evaluation sheet completed by the classroom teacher. These comments are considered when the university instructor issues the course grade. Concerns from the Coordinator of Field Experience, Teacher Education faculty, classroom teacher, or principal may result in the candidate appearing before the Faculty Advisory Council for the Teacher Education Program. The Council may outline a program of improvement or request the candidate be removed from the Teacher Education Program.
5. The teacher candidate will comply with the dress code and other responsibilities as outlined in the School of Education Field Experience Handbook. The teacher candidate will also comply with field requirements as outlined in course syllabi.
6. A teacher candidate may be removed from a field experience by the Coordinator of Field Experience. Procedures for removal are outlined in the Field Experience Handbook.
7. The field experience is a section of the course grade. An incomplete in a field experience will result in an incomplete or “F” in the course grade.

Partnership

The Teacher Education Program participates in a partnership program with local school districts. If a teacher candidate is enrolled in a course that has the course field experience with a partnership school, part of the course is taught on campus and part of the course is conducted on site with a partnership school.

Community Service

Candidates are encouraged to participate in community service. With permission from the course instructor, part of the field experience hours in the course may be completed by participation in a community service project. The candidate must justify that the project will be a learning experience and the total hours will not exceed 1/4 of the total field experience hours required for the course.

Multi-culture Experiences

The teaching of multi-culture education is threaded through the Professional Education courses. In addition, a course is designed to focus on multi-culture: EDU 30302 Multicultural Relations. Teacher candidates are also required to enroll in EDU 11601 Field Experience: Cultural Diverse Setting. During this course, the candidate will meet with the Coordinator of Field Experience and will decide on a setting for the experience which includes working with students from various ethnic and cultural backgrounds. This placement is time and place sensitive.
Junior Field Experience

The final field experience for teacher candidates is EDU 39103 Junior Field Experience. Candidates must complete an application process prior to admission to Junior Field Experience. The application is submitted to Director of Clinical Practice and placement is handled by the Field Experience Coordinator. In addition to completing the application, the teacher candidate must adhere to the following standards:

1. A GPA of 2.5 in General Studies courses.
2. A GPA of 2.5 in Curriculum Content courses.
3. A GPA of 2.75 in Professional Education courses.
4. A GPA of 3.0 in Methods courses (With no grade below a “C”.)
5. Submit two letters of recommendation from faculty members (forms are included in the application). One recommendation must be from an Education faculty member. The second recommendation must be from a Licensure Area faculty member.
6. Ohio State law requires evidence of a negative TB test before teaching. The candidate must have verification before entering Junior Field Experience. Candidate must have a current and clear BCI.
7. Portfolio Benchmark II must be met during EDU 30302 Multi-Cultural Relations.
8. Completion of a majority of Methods Courses. EXCEPT AYA majors who must complete both methods courses. (Form is included in the application.).

Clinical Practice

The capstone activity for the University of Rio Grande Teacher Education Program is twelve weeks of clinical practice. The teacher candidate must work with a master teacher in the classroom for the full day during this experience and must remain after school for the same amount of time that is required for the master teacher. The candidate will be assessed by the master teacher and the University of Rio Grande college supervisor using an assessment based on Pathwise Domains, Specialized Professional Association Standards and URG School of Education Standards.

Admission to Clinical Practice

Teacher candidates must complete an application process, which is accompanied by a résumé and a degree audit. The Director of Clinical Practice and Head of Teacher Education are responsible for accepting candidates into clinical practice. The teacher candidates will be placed into clinical practice by the Director of Clinical Practice. If the area of licensure requires two placements for clinical practice, the candidate will be placed in a setting that was not completed during the supervised experience in EDU 39103 Junior Field Experience Junior Field Experience.

All candidates placed into Clinical Practice must adhere to the following performance standards:

1. An overall GPA of at least 2.5; a GPA of at least 2.5 in Professional Education courses; a GPA of at least 2.75 in licensure area(s).
2. No final course grade of Incomplete or the letter grade of “F” on transcript.
3. A letter grade of “C” or better in all methods courses.
4. A letter grade of “C” or better in EDU 39103 Junior Field Experience.
5. Passage of Praxis II (PLT and Content). For specific codes visit the Praxis website at www.ets.org/praxis.
6. Grade of “C” or better in all Curriculum Content and Professional Education Courses.
7. Ohio State law requires evidence of a negative TB test before teaching. The candidate must have verification before entering clinical practice or any field experience.
8. When the candidate enrolls for clinical practice, he/she must also enroll in two (2) sprint courses which are offered the four weeks prior to the beginning of the student teaching experience: EDU 33302 Integrating Educational Technology into the Curriculum and EDU 48901 Portfolio.
9. Prior approval by the Head of Teacher Education is required before the student may enroll in any course during student teaching except EDU 33302 Integrating Educational Technology into the Curriculum, EDU 44403 Reading Assessment & Development or EDU 48901 Portfolio.

Clinical Practice Experience

During the clinical practice experience the teacher candidate will be expected to adhere to the following performance standards:

1. Orientation must be attended by the teacher candidate. During orientation the teacher candidate will be given a Clinical Practice Handbook.
2. The teacher candidate must attend clinical practice seminars. The dates, times, and places will be identified in the clinical practice packet which the teacher candidate will receive during orientation.
3. The teacher candidate must follow policies outlined in the Clinical Practice Handbook.
4. The teacher candidate must follow policies outlined in the School Handbook for the placement school. The teacher candidate is expected to follow the master teacher’s assigned schedule including after school duties.
5. The teacher candidate must receive the letter grade of “B” or better in student teaching. A grade lower than “B” indicates the performance was below average and was not accepted.
6. Clinical Practice experience must be repeated in a different placement if a letter grade lower than “B” is received in clinical practice.
7. A grade of “B” or better is required for licensure.

Clinical Practice Seminars

During the twelve weeks of clinical practice, all teacher candidates, including those teaching out of district, are required to attend seminars on campus. The seminar grade is built into the clinical practice grade. Failure to attend seminars lowers the candidate’s final grade in clinical practice.

Action Research Project

Each candidate in Clinical Practice must undertake an Action Research Project during the Student Teaching Experience. This must be presented in PowerPoint format to a public forum at the end of the experience. Candidates who do not meet the standards for the Action Research Project will have their final Clinical Practice grade lowered one letter.


Removal from Clinical Practice

A teacher candidate may be removed from clinical practice by the Director of Clinical Practice. Procedure for removal from clinical practice is outlined in the Clinical Practice Handbook.

After two unsuccessful attempts at clinical practice, the candidate will be required to repeat courses in the Teacher Education Program. Courses will be determined by the advisor, university supervisor (if a full-time instructor), and Director of Clinical Practice. The Head of Teacher Education may ask other faculty to participate in the decision-making process.

Teacher Licensure

The Head of Teacher Education at the University of Rio Grande recommends teacher candidates to the Ohio Board of Education for teacher licensure. The following standards must be met before application for teacher license is recommended:

1. An overall GPA of at least 2.5; a GPA of at least 2.5 in Professional Education courses; a GPA of at least 2.75 in licensure area(s).
2. No final course grade of Incomplete or the letter grade of “F” on transcript.
3. A letter grade of “C” or better in all methods courses.*
4. A letter grade of “B” or better in student teaching.
5. A final audit which confirms successful completion of all course work required for the requested teacher license area(s).
6. Passing score on all required Praxis II tests.
7. No grades below “C” in Curriculum Content or Professional Education Courses.
8. A report of a fingerprint check for criminal background check and FBI Check. No person may receive a teacher license who has been convicted of a felony. University of Rio Grande Campus Police has electronic fingerprinting that is available to students.

Institutional Report Card: Title II

In April of each year, the University of Rio Grande issues an Institutional Report on the Quality of Teacher Education beginning with the 2000-2001 academic year. This report contains both summary information and data concerning the Praxis II and Praxis III test passing rates of Teacher Education program completers of the previous academic year. Both aggregate and individual test data are reported. The actual report may be located as an insert in the University of Rio Grande Catalog, and in other Teacher Education publications. The Institutional Report on the Quality of Teacher Education is a federal mandate under the Higher Education Act of 1998: Title II, Section 207, which requires public reporting on the success of institutions in preparing teachers and is available on the ODE website.

Degree Requirements

Bachelor of Science – Early Childhood: Four-Year Licensure Program (40401)

This licensure program prepares candidates to teach in PreK-Grade 3 settings. It is Nationally Recognized by the National Association for the Education of Young Children (NAEYC) and approved by the Ohio Department of Education for Provisional Professional Licensure.

General Education (see page 28) must include:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART (any elective)</td>
<td>3 - 4</td>
</tr>
<tr>
<td>EDU 10201</td>
<td>Technological Literacy</td>
</tr>
<tr>
<td>BIO 11404</td>
<td>Principles of Biology</td>
</tr>
<tr>
<td>COM 11103</td>
<td>Fundamentals of Speech Communication</td>
</tr>
<tr>
<td>ENG 11103</td>
<td>Composition I</td>
</tr>
<tr>
<td>ENG 11103</td>
<td>Composition II</td>
</tr>
<tr>
<td>ENG 24103</td>
<td>Literary Imagination</td>
</tr>
</tbody>
</table>

Select one of the following two courses

- HIS 13103 World Civilization I or
- HIS 13203 World Civilization I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 10101</td>
<td>Freshman Success</td>
</tr>
<tr>
<td>MTH 11505</td>
<td>Mathematics for Educators I</td>
</tr>
<tr>
<td>PHR 21103</td>
<td>Philosophical Inquiry</td>
</tr>
<tr>
<td>PSY 11103</td>
<td>General Psychology</td>
</tr>
<tr>
<td>PSY 21103</td>
<td>Human Growth and Development</td>
</tr>
<tr>
<td>HPE 10101</td>
<td>Human Wellness &amp; Physical Fitness</td>
</tr>
</tbody>
</table>

Select one of the following eleven courses

- HPE 11101 Archery
- HPE 11201 Beginning Swimming
- HPE 11401 Lifeguard Training
- HPE 11601 Golf
- HPE 11701 Swimming for Physical Fitness
- HPE 11901 Folk & Social Dance
- HPE 12401 Badminton
- HPE 13101 Conditioning for Physical Fitness
- HPE 13301 Racquetball
- HPE 13401 Weight Training
- HPE 19801 Walking for Physical Fitness

Total General Education hours: 40 - 41

Professional Education required courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 10303</td>
<td>School and Community</td>
</tr>
<tr>
<td>EDU 11601</td>
<td>Field Experience: Culture Diverse Settings</td>
</tr>
<tr>
<td>EDU 22303</td>
<td>Science, Health &amp; Nutrition Methods &amp; Intervention Techniques for Early Childhood</td>
</tr>
<tr>
<td>EDU 22403</td>
<td>Educating the Exceptional Learner</td>
</tr>
<tr>
<td>EDU 22503</td>
<td>Content Area Reading for Early Childhood</td>
</tr>
<tr>
<td>EDU 24303</td>
<td>Early Childhood Integrated Language Arts/Social Studies Methods</td>
</tr>
<tr>
<td>EDU 30302</td>
<td>Multicultural Relations</td>
</tr>
<tr>
<td>EDU 30503</td>
<td>Phonics for Early Childhood</td>
</tr>
<tr>
<td>EDU 31403</td>
<td>Reading Methods for Early Childhood</td>
</tr>
<tr>
<td>EDU 33302</td>
<td>Integrating Educational Technology into the Curriculum</td>
</tr>
<tr>
<td>EDU 39103</td>
<td>Junior Field Experience</td>
</tr>
<tr>
<td>EDU 41403</td>
<td>Educational Psychology</td>
</tr>
<tr>
<td>EDU 44403</td>
<td>Reading Assessment &amp; Development</td>
</tr>
<tr>
<td>EDU 48204</td>
<td>Math Methods &amp; Intervention Techniques for Early Childhood</td>
</tr>
<tr>
<td>EDU 48901</td>
<td>Portfolio</td>
</tr>
<tr>
<td>EDU 49110</td>
<td>Clinical Practice in the Early Childhood Setting</td>
</tr>
</tbody>
</table>

Total Professional Education hours: 52

Curriculum Content required courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 11403</td>
<td>Art in the Curriculum</td>
</tr>
<tr>
<td>EDU 11504</td>
<td>Theoretical &amp; Historical Perspectives in ECD</td>
</tr>
<tr>
<td>EDU 20302</td>
<td>Basics of Early Care &amp; Education</td>
</tr>
<tr>
<td>EDU 22302</td>
<td>Observation, Assessment &amp; Evaluation</td>
</tr>
</tbody>
</table>
EDU 23403 Family & Community Relations in Early Childhood..........................3
EDU 32103 Constructivist Practices............................................................3
ENG 24603 Children’s Literature ................................................................3
HPE 16203 Nutrition ..................................................................................3
HPE 20103 Physical Education Class Activities, Ages 3 – Grade 9 ............3
HPE 24302 Safety & First Aid.................................................................2
MTH 11604 Mathematics for Educators II................................................4
MUS 20003 Music in the Curriculum ......................................................3
Any Science course ..................................................................................3 - 4
Total Curriculum Content hours .........................................................38 - 39
Total required hours for degree ..........................................................132 - 134

Bachelor of Science – Middle Childhood*

The Middle Childhood Licensure area has specific General Education requirements. Also required are Professional Education and Curriculum Content areas. Students electing to pursue the Middle Childhood Licensure program must select two area concentrations from the four options available: Language Arts, Mathematics, Science, and Social Studies. Since this License program requires two (2) areas of Concentration for a total of 38 - 46 hours, the suggested sequence requires more than a normal semester load of sixteen to seventeen hours. This licensure program prepares candidates to teach in Grade 4 - 9 Content Specific settings. It is Nationally Recognized by the National Middle School Association (NMSA) and approved by the Ohio Department of Education for Provisional Professional Licensure.

*URG degree codes for this licensure area are:
  40415 – Language Arts/Social Studies
  40416 – Language Arts/Math
  40417 – Language Arts/Science
  40418 – Social Studies/Math
  40419 – Social Studies/Science
  40420 – Math/Science

General Education (see page 28) must include:
  COM 11103 Fundamentals of Speech Communication........................3
  EDU 10201 Technological Literacy .....................................................1
  ENG 11103 Composition I .................................................................3
  ENG 11203 Composition II ...............................................................3
  ENG 24103 Literary Imagination ......................................................3
  LA 10101 Freshman Success ............................................................1
  PHR 21103 Philosophical Inquiry ......................................................3
  MTH 11505 Mathematics for Educators I ........................................5
Select one of the following two courses
  BIO 11404 Principles of Biology .......................................................4
  BIO 12104 Biology I ..........................................................................4
Select one of the following two courses
  HIS 13103 World Civilization I .......................................................1
  HIS 13203 World Civilization II .....................................................3
Select one of the following four courses
  CHM 10404 Principles of Chemistry
  NSC 12303 Descriptive Astronomy
  NSC 22304 Environmental Science
  PHY 10404 Principles of Physics ....................................................3 - 4
PSY 11103 General Psychology ..........................................................3
PSY 21103 Human Growth and Development ..................................3
SSC 11103 Introduction to Social Science ........................................3
HPE 10101 Human Wellness & Physical Fitness ...............................1
Select one of the following eleven courses
  HPE 11101 Archery

HPE 11201 Beginning Swimming
HPE 11401 Lifeguard Training
HPE 11601 Golf
HPE 11701 Swimming for Physical Fitness
HPE 11901 Folk & Social Dance
HPE 12401 Badminton
HPE 13101 Conditioning for Physical Fitness
HPE 13301 Racquetball
HPE 13401 Weight Training
HPE 19801 Walking for Physical Fitness ............................................1
Total General Education hours .......................................................40 - 41

Professional Education required courses
  EDU 10303 School and Community ..................................................3
  EDU 11601 Field Experience: Cultural Diverse Settings ....................3
  Must take the following two courses concurrently
    EDU 20401 Integrated Classroom Management & Learning Environment
    EDU 20403 Planning for Instruction ...............................................1
  EDU 22403 Educating the Exceptional Learner ..................................3
  EDU 23503 Content Area Reading for Middle Childhood ..................3
  EDU 26501 Middle Childhood Seminar I ........................................1
  EDU 30302 Multicultural Relations ..................................................2
  EDU 33203 Phonics for Middle Childhood .......................................3
  EDU 33302 Integrating Educational Technology into the Curriculum ....2
  EDU 33403 Reading Methods for Middle Childhood .........................3
  EDU 39103 Junior Field Experience ................................................3
  EDU 41403 Educational Psychology ................................................3
  EDU 44403 Reading Assessment & Development ..........................3
  EDU 48901 Portfolio .........................................................................1
  EDU 49210 Clinical Practice in the Middle Childhood Setting ...........10
  EDU 26501 Middle Childhood Seminar ..........................................1
Select two of the following four courses - based upon Licensure Areas (please note concentration in parenthesis)
  EDU 22203 Science, Health & Nutrition Methods
    & Intervention Techniques for Middle Childhood
    (Science Concentration)
  EDU 26403 Middle Childhood Integrated Social Studies
    Methods (Social Studies Concentration)
  EDU 37503 Middle Childhood Integrated Language Arts
    Methods (Language Arts Concentration)
  EDU 48304 Math Methods & Intervention Techniques for
    Middle Childhood (Math Concentration)
Total two courses, three to fours credit hours ..............................3 - 4
Total Professional Education hours ..............................................49 - 50

Curriculum Content Area required courses
  Art (6 hours) .........................................................................................6
  EDU 11403 Art in the Curriculum .....................................................3
  MUS 20003 Music in the Curriculum .................................................3
  Any Science Class (3 - 4 hours) ......................................................3
  MTH 11604 Mathematics for Educators II ......................................4
  HPE 20103 Physical Education Class Activities,
    Ages 3 - Grade 9 .............................................................................4
  ENG 24603 Children’s Literature .....................................................3
Select one of any of the following five courses
  HIS 24103 Latin America .................................................................3
  HIS 34203 Africa .................................................................................3
  HIS 34303 Middle East ....................................................................3
  HIS 34503 Far East ............................................................................3
  HIS 34603 Russia ............................................................................ 3

Curriculum Content Area hours .....................................................28
Middle Childhood Language Arts Concentration

Language Arts Core
ENG 33303 Linguistics & Grammar .................................. 3
ENG 24603 Children’s Literature .................................. 3
Select one of the following two courses
ENG 25103 American Literature to the Civil War or
ENG 25203 American Literature since the Civil War .......... 3
THR 10503 Introduction to Theatre ................................ 3
Total Language Arts Core hours .................................... 12

Communication
COM 21102 Oral Interpretation ...................................... 2
Total Communication hours .......................................... 2

Journalism
Select one of the following two courses
JRN 22103 News Writing or
JRN 32102 Broadcast News Writing ............................. 2 - 3
Total Journalism hours .............................................. 2 - 3

World Literature
Select one of the following two courses
ENG 24403 World Literature I or
ENG 24503 World Literature II .................................... 3
Total World Literature hours ....................................... 3

Total Middle Childhood Language Arts Concentration hours ................................. 19 - 21
Total required hours for degree .................................. 135 - 140

Middle Childhood Mathematics Concentration

MTH 11505 Mathematics for Educators I ........................ 5
MTH 11604 Mathematics for Educators II ....................... 4
MTH 21404 Introductory Probability & Statistics ............ 4
MTH 25403 Discrete Mathematics ................................. 3
MTH 26603 Number Theory ....................................... 3
Select one of the following calculus sequences
(depending on placement exam)
MTH 14505 Precalculus
or
MTH 15105 Calculus I
MTH 15204 Calculus II
Total calculus sequence hours .................................. 9 -10
Total Middle Childhood Mathematics Concentration hours ..................................... 28 -29
Total required hours for degree .................................. 135 - 140

Middle Childhood Science Concentration required hours
BIO 12104 Biology I ..................................................... 4
BIO 12204 Biology II .................................................. 4
CHM 10404 Principles of Chemistry .............................. 4
NSC 12303 Descriptive Astronomy ................................ 3
NSC 20303 Physical Geology ...................................... 3
NSC 22304 Environmental Science ................................ 4
NSC 33202 Laboratory Management ........................... 2
NSC 45303 Integrated Science .................................... 3
PSY 21103 Human Growth & Development .................. 3
PHY 17505 General Physics I with Algebra .................... 5
Total Middle Childhood Science Concentration hours ................. 35
Total required hours for degree .................................. 135 - 140

Middle Childhood Social Studies Concentration

POL 35103 Comparative Government ............................. 3
SOC 24103 Minority Groups ....................................... 3
SOC 36103 Social Research ......................................... 3
SSC 11103 Introduction to Social Science ....................... 3
SSC 25103 Principles of Geography .............................. 3
Select one of the following three courses
HIS 22203 American Experience in Global Perspective
HIS 32013 American Cultural History I
HIS 32023 American Cultural History II ...................... 3
Select one of the following two courses
ATH 12103 Anthropology or
SOC 11103 Introduction to Sociology .......................... 3
Select one of the following two courses (General Education)
HIS 13103 World Civilization I or
HIS 13203 World Civilization II .................................. 3
Select one of the following two courses
ECO 11103 Contemporary Economics or
ECO 12403 Introduction to Microeconomics .................. 3
Select one of the following two courses
POL 11103 American National Government or
POL 12103 American State Government ....................... 3
Total Middle Childhood Social Studies hours .................... 30
Total required hours for degree .................................. 135 - 140

Bachelor of Science – Adolescent to Young Adult*

The Adolescent to Young Adult Licensure area has specific General Education requirements. Also required are Professional Education and Curriculum Content areas. Students electing to pursue the Adolescent to Young Adult Licensure program may select one program from five (5) program offerings: Integrated Language Arts, Integrated Mathematics, Integrated Social Studies, Life Sciences, and Physical Sciences.

*URG degree codes for this licensure area are:
40431 – Adolescent to Young Adult Integrated Language Arts
40432 – Adolescent to Young Adult Integrated Mathematics
40433 – Adolescent to Young Adult Life Sciences
40434 – Adolescent to Young Adult Integrated Social Studies
40435 – Adolescent to Young Adult Physical Sciences

Adolescent to Young Adult Integrated Language Arts (40431)

This licensure program prepares candidates to teach in Grade 7-12 Integrated Language Arts settings. It is Nationally Recognized by the National Council for Teachers of English (NCTE) and approved by the Ohio Department of Education for Provisional Professional Licensure.

General Education (see page 28) must include:
COM 11103 Fundamentals of Speech Communication ... 3
EDU 10201 Technological Literacy .............................. 1
ENG 11103 Composition I .......................................... 3
ENG 11203 Composition II ........................................... 3
ENG 24103 Literary Imagination .................................. 3
FPA 10503 Fine Arts ................................................. 3
LA 10101 Freshman Success ....................................... 1
PHR 21103 Philosophical Inquiry ............................... 3
PSY 11103 General Psychology .................................. 3
PSY 21103 Human Growth & Development .................. 3
SSC 11103 Intro to Social Science ............................... 3
Select one of the following two courses
BIO 11404 Principles of Biology
BIO 12104 Biology I ........................................... 4

Select one of the following four courses
CHM 10404 Principles of Chemistry
CHM 15005 General Chemistry I
NSC 22304 Environmental Science
PHY 10404 Principles of Physics ......................... 4 - 5

Select one of the following two courses
HIS 13103 World Civilization I
HIS 13203 World Civilization II

Select one of the following three courses
MTH 14505 Precalculus
MTH 21404 Introductory Probability & Statistics
MTH 15105 Calculus I ......................................... 4 - 5

PHR 21103 Philosophical Inquiry ....................... 3
PSY 11103 General Psychology ............................ 3
PSY 21103 Human Growth & Development ........... 3

HPE 10101 Human Wellness & Physical Fitness .... 1

Select one of the following eleven courses
HPE 11101 Archery
HPE 11201 Beginning Swimming
HPE 11401 Lifeguard Training
HPE 11601 Golf
HPE 11701 Swimming for Physical Fitness
HPE 11901 Folk & Social Dance
HPE 12401 Badminton
HPE 13101 Conditioning for Physical Fitness
HPE 13301 Racquetball
HPE 13401 Weight Training
HPE 19801 Walking for Physical Fitness ............... 1

Total General Education hours .................................. 43 - 45

Professional Education required courses
EDU 10303 School and Community ..................... 3
EDU 11601 Field Experience: Cultural Diverse Settings 1
Must take the following two courses concurrently
EDU 20401 Integrated Classroom Management & Learning Environment ......................... 1
EDU 20403 Planning for Instruction .................... 3
EDU 22403 Educating the Exceptional Learner ....... 3
EDU 30302 Multicultural Relations ....................... 2
EDU 32503 Adolescent to Young Adult Content Area Reading ............................................. 3
EDU 33302 Integrating Educational Technology into the Curriculum ........................................ 2
EDU 39103 Junior Field Experience ..................... 3
EDU 41403 Educational Psychology ..................... 3
EDU 48604 Integrated Language Arts Methods for Adolescent to Young Adult ....................... 4
EDU 48901 Portfolio ............................................. 1
EDU 49310 Clinical Practice in the Adolescent to Young Adult Setting ................................ 10

Total Professional Education hours .............................. 39

Curriculum Content Area required courses
COM 22103 Principles of Discussion .................... 3
COM 22204 Argumentation ................................. 4
ENG 24103 Literary Imagination ......................... 3
ENG 24703 Adolescent and Young Adult Literature ... 3
ENG 24803 Comparative World Literature ............ 3
ENG 25103 American Literature to the Civil War ..... 3
ENG 25203 American Literature since the Civil War .. 3
ENG 26103 British Literature to the Romantic Era ... 3
ENG 26203 British Literature since the Romantic Era ... 3

Select one of the following two courses
JRN 22103 News Writing or
JRN 34402 Desktop Publishing ............................ 2 - 3

Select one of the following two courses
ENG 45103 Major Authors or
ENG 36403 Shakespeare from Script to Screen ..... 3

Total Curriculum Content Area hours .......................... 54

Total required hours for degree .................................. 132 - 140

Adolescent to Young Adult Integrated Mathematics (40432)
This licensure program prepares candidates to teach Integrated Mathematics in Grade 7-12 settings. This program is Nationally Recognized by the National Council of Teachers of Mathematics (NCTM) and approved by the Ohio Department of Education for Provisional Professional Licensure.

General Education (see page 28) must include:
COM 11103 Fundamentals of Speech Communication ... 3
EDU 10201 Technological Literacy ........................ 1
ENG 11103 Composition I .................................. 3
ENG 11203 Composition II .................................. 3
ENG 24103 Literary Imagination ......................... 3
FPA 10503 Fine Arts ......................................... 3
LA 10101 Freshman Success ............................... 1
MTH 15105 Calculus I ......................................... 4 - 5
PHR 21103 Philosophical Inquiry ....................... 3
PSY 11103 General Psychology ............................ 3
PSY 21103 Human Growth & Development ........... 3

Select one of the following three courses
HIS 13103 World Civilization I
HIS 13203 World Civilization II
SSC 11103 Intro to Social Science ....................... 3

Select one of the following two courses
BIO 11404 Principles of Biology or
BIO 12104 Biology I ........................................... 4

Select one of the following four courses
CHM 10404 Principles of Chemistry
CHM 15005 General Chemistry I
NSC 22304 Environmental Science
PHY 10404 Principles of Physics .......................... 4 - 5

HPE 10101 Human Wellness & Physical Fitness ....... 1

Select one of the following eleven courses
HPE 11101 Archery
HPE 11201 Beginning Swimming
HPE 11401 Lifeguard Training
HPE 11601 Golf
HPE 11701 Swimming for Physical Fitness
HPE 11901 Folk & Social Dance
HPE 12401 Badminton
HPE 13101 Conditioning for Physical Fitness
HPE 13301 Racquetball
HPE 13401 Weight Training
HPE 19801 Walking for Physical Fitness ............... 1

Total General Education hours ................................. 44 - 45
Professional Education required courses
EDU 10303 School and Community .......................... 3
EDU 11601 Field Experience: Cultural Diverse Settings 1
Must take the following two courses concurrently
EDU 20401 Integrated Classroom Management & Learning Environment .................................. 1
EDU 20403 Planning for Instruction ................................ 3
EDU 22403 Educating the Exceptional Learner .............. 3
EDU 30302 Multicultural Relations .............................................. 2
EDU 32503 Adolescent to Young Adult Content Area Reading .............................................. 3
EDU 33302 Integrating Educational Technology into the Curriculum ........................................ 2
EDU 39103 Junior Field Experience ........................................ 3
EDU 41403 Educational Psychology .......................................... 3
EDU 48404 Math Methods and Intervention Techniques for Adolescent to Young Adult .............. 4
EDU 48901 Portfolio ................................................................. 1
EDU 49310 Clinical Practice in the Adolescent to Young Adult Setting ........................................ 10
Total Professional Education hours ..................................... 39

Curriculum Content Area required courses
MTH 15204 Calculus II ......................................................... 4
MTH 15304 Multivariable Calculus ........................................ 4
MTH 21504 Probability and Statistics I ................................. 4
MTH 21603 Probability and Statistics II .................................. 3
MTH 25403 Discrete Mathematics ......................................... 3
MTH 26603 Number Theory .................................................. 3
MTH 27403 College Algebra .................................................. 3
MTH 27703 Differential Equations I ........................................ 3
MTH 37403 Mathematical Models .......................................... 3
MTH 38403 Linear Algebra .................................................... 3
MTH 38603 Abstract Algebra .................................................. 3
MTH 43403 History of Mathematics ...................................... 3

Total Curriculum Content Area hours ................................... 42

Personal Electives ................................................................. 1 - 2

Total required hours for degree ........................................... 129 - 131

Adolescent to Young Adult Integrated Social Studies (40434)

This licensure program prepares candidates to teach the Integrated Social Studies Subject areas in Grade 7-12 settings. This program is Nationally Recognized by the National Council for the Social Studies (NCSS) and approved by the Ohio Department of Education for Provisional Professional Licensure.

General Education (see page 28) must include:
ATH 12103 Anthropology .................................................... 3
COM 11103 Fundamentals of Speech Communication .................................................. 3
EDU 10201 Technological .................................................... 1
ENG 11103 Composition I ................................................... 3
ENG 11203 Composition II ................................................... 3
FPA 10503 Fine Arts ......................................................... 3
LA 10101 Freshman Success .............................................. 1
MTH 21404 Introductory Probability & Statistics .............. 4
PHR 21103 Philosophical Inquiry ......................................... 3
PSY 11103 General Psychology ........................................... 3
PSY 21103 Human Growth & Development ............................. 3
SSC 11103 Introduction to Social Science ......................... 3
Select one of the following two courses
BIO 11404 Principles of Biology or
BIO 12104 Bology I ............................................................. 4
Select one of the following three courses
CHM 10404 Principles of Chemistry
NSC 22304 Environmental Science
PHY 10404 Principles of Physics ....................................... 4

Select one of the following two courses
HIS 13103 World Civilization I or
HIS 13203 World Civilization II ......................................... 3
HPE 10101 Human Wellness & Physical Fitness .................. 1

Select one of the following eleven courses
HPE 11101 Archery
HPE 11201 Beginning Swimming
HPE 11401 Lifeguard Training
HPE 11601 Golf
HPE 11701 Swimming for Physical Fitness
HPE 11901 Folk & Social Dance
HPE 12401 Badminton
HPE 13101 Conditioning for Physical Fitness
HPE 13301 Racquetball
HPE 13401 Weight Training
HPE 19801 Walking for Physical Fitness .............................. 1

Total General Education hours ............................................ 46

Professional Education required courses
EDU 10303 School and Community ........................................ 3
EDU 11601 Field Experience: Cultural Diverse Settings 1
Must take the following two courses concurrently
EDU 20401 Integrated Classroom Management & Learning Environment .................................. 1
EDU 20403 Planning for Instruction ........................................ 3
EDU 22403 Educating the Exceptional Learner ............................. 3
EDU 30302 Multicultural Relations .......................................... 2
EDU 32503 Adolescent to Young Adult Content Area Reading .............................................. 3
EDU 33302 Integrating Educational Technology into the Curriculum ........................................ 2
EDU 39103 Junior Field Experience ........................................ 3
EDU 41403 Educational Psychology .......................................... 3
EDU 48704 Social Studies Methods for Adolescent to Young Adult ............................................. 4
EDU 48901 Portfolio ................................................................. 1
EDU 49310 Clinical Practice in the Adolescent to Young Adult Setting ........................................ 10
Total Professional Education hours ..................................... 39

Curriculum Content Area required courses ........................................ 51
ECO 11403 Introduction to Microeconomics .......................... 3
ECO 12403 Introduction to Macroeconomics .......................... 3
HIS 12103 American History I ............................................ 3
HIS 12203 American History II .......................................... 3
HIS 13103 World Civilization I .......................................... 3
HIS 13203 World Civilization II .......................................... 3
HIS 43703 History and Historians Seminar ............................. 3
POLL 11103 American National Government .......................... 3
POLL 35103 Comparative Government .................................. 3
POLL 45103 International Relations/Foreign Policy .................. 3
SOC 11103 Introduction to Sociology ..................................... 3
SOC 24103 Minority Groups .................................................. 3
SOC 36103 Social Research ................................................... 3
SSC 25103 Principles of Geography ...................................... 3

Select one of the following three courses
POLL 31103 The Presidency
POLL 31203 The American Constitutional System
POLL 34103 Legislative Behavior and Process ...................... 3
Select one of the following three courses
HIS 32013 American Cultural History I
HIS 32203 American Cultural History II
HIS 22503 History of Ohio

Select one of the following five courses
HIS 24103 Latin America
HIS 34203 Africa
HIS 34303 Middle East
HIS 34503 Far East
HIS 34603 Russia

Total one course, three credit hours

Curriculum Content Area required courses

Total required hours for degree

Adolescent to Young Adult Life Sciences (40433)

This licensure program prepares candidates to teach Life Science Subject Areas in Grade 7-12 settings. This program is Nationally Recognized by the National Science Teachers Association (NSTA) and approved by the Ohio Department of Education for Provisional Professional Licensure.

General Education (see page 28) must include:

BIO 12104 Biology I
COM 11103 Fundamentals of Speech Communication
EDU 10201 Technological Literacy
ENG 11103 Composition I
ENG 11203 Composition II
ENG 24103 Literary Imagination
FPA 10503 Fine Arts
LA 10101 Freshman Success
PHR 21103 Philosophical Inquiry
PSY 11103 General Psychology
PSY 21103 Human Growth & Development

Select one of the following three courses
HIS 13103 World Civilization I
HIS 13203 World Civilization II
SSC 11103 Introduction to Social Science

Select one of the following two courses
CHM 15005 General Chemistry
PHY 10404 Principles of Physics

Select one of the following three courses
MTH 14505 Precalculus
MTH 21404 Introductory Probability & Statistics
MTH 15105 Calculus I

Select one of the following eleven courses
HPE 11101 Archery
HPE 11201 Beginning Swimming
HPE 11401 Lifeguard Training
HPE 11601 Golf
HPE 11701 Swimming for Physical Fitness
HPE 11901 Folk & Social Dance
HPE 12401 Badminton
HPE 13101 Conditioning for Physical Fitness
HPE 13301 Racquetball
HPE 13401 Weight Training
HPE 19801 Walking for Physical Fitness

Total General Education hours

Professional Education required courses

EDU 10303 School and Community
EDU 11601 Field Experience: Cultural Diverse Settings

Must take the following two courses concurrently
EDU 20401 Integrated Classroom Management & Learning Environment
EDU 20403 Planning for Instruction
EDU 22403 Educating the Exceptional Learner
EDU 30302 Multicultural Relations
EDU 32503 Adolescent to Young Adult Content Area Reading
EDU 33302 Integrating Educational Technology into the Curriculum
EDU 39103 Junior Field Experience
EDU 41403 Educational Psychology
EDU 48504 Science Methods & Intervention Techniques for Adolescent to Young Adult
EDU 48901 Portfolio
EDU 49310 Clinical Practice in the Adolescent to Young Adult Setting

Total required hours for degree

Curriculum Content Area required courses

Life Science Core required courses

BIO 12104, 22204, 20303, & 21304 MUST be taken in order

Chemistry required courses

Mathematics required courses

Natural Science required courses

Physics required courses

Total required hours for degree
Adolescent to Young Adult Physical Sciences (40435)

This licensure program prepares candidates to teach Physical Science Subject Areas in Grade 7-12 settings. This program is Nationally Recognized by the National Science Teachers Association (NSTA) and approved by the Ohio Department of Education for Provisional Professional Licensure.

General Education (see page 28) must include:

- BIO 12104 Biology I ........................................... 4
- CHM 15005 General Chemistry I ......................... 5
- COM 11103 Fundamentals of Speech Communication ... 3
- EDU 10201 Technological Literacy .......................... 1
- ENG 1103 Composition I .................................... 3
- ENG 1203 Composition II ..................................... 3
- ENG 24103 Literary Imagination ............................ 3
- FPA 10503 Fine Arts ........................................... 3
- LA 10101 Freshman Success ................................... 1
- MTH 15105 Calculus I ......................................... 5
- PHR 21103 Philosophical Inquiry .......................... 3
- PSY 11103 General Psychology .............................. 3
- PSY 21103 Human Growth & Development ................ 3

Select one from the following three courses

- HIS 13103 World Civilization I or
- HIS 13203 World Civilization II or
- SSC 11103 Introduction to Social Science ............... 3

HPE 10101 Human Wellness & Physical Fitness ............ 1

Select one of the following eleven courses

- HPE 11101 Archery
- HPE 11201 Beginning Swimming
- HPE 11401 Lifeguard Training
- HPE 11601 Golf
- HPE 11701 Swimming for Physical Fitness
- HPE 11901 Folk & Social Dance
- HPE 12401 Badminton
- HPE 13101 Conditioning for Physical Fitness
- HPE 13301 Racquetball
- HPE 13401 Weight Training
- HPE 19801 Walking for Physical Fitness ................. 1

Total General Education hours ................................ 45

Professional Education required courses

- EDU 10303 School and Community ........................ 3
- EDU 11601 Field Experience: Cultural Diverse Settings I
  Must take the following two courses concurrently
  - EDU 20401 Integrated Classroom Management & Learning Environment ........... 1
  - EDU 20403 Planning for Instruction ........................ 3
  - EDU 22403 Educating the Exceptional Learner ............... 3
  - EDU 30302 Multicultural Relations .......................... 2
  - EDU 32503 Adolescent to Young Adult Content Area Reading .................. 3
  - EDU 33302 Integrating Educational Technology into the Curriculum ............ 2
  - EDU 39103 Junior Field Experience ........................... 3
  - EDU 41403 Educational Psychology .......................... 3
  - EDU 48504 Science Methods & Intervention Techniques for Adolescent to Young Adult .... 4
  - EDU 48901 Portfolio ........................................... 1
  - EDU 49310 Clinical Practice in the Adolescent to Young Adult Setting .......... 10

Total Professional Education hours ................................ 39

Physical Science Core required courses

- CHM 15505 General Chemistry II .......................... 5

CHM 26202 Organic Chemistry Laboratory I ............... 2
CHM 26303 Organic Chemistry Theory I ................... 3
CHM 27202 Organic Chemistry Laboratory II .............. 2
CHM 27303 Organic Chemistry Theory II ................... 3
PHY 20505 General Physics I with Calculus ............... 5
PHY 21505 General Physics II with Calculus ............... 5

Total Physical Science Core ........................................... 25

Additional Physics required courses

- PHY 37303 Thermodynamics ................................. 3
- PHY 46404 Modern Physics .................................... 4
- PHY 47303 Electronics for Scientists ....................... 3

Total additional Physics hours ................................. 10

Mathematics required courses

Select one of the following two courses

- MTH 15105 Calculus I or
- MTH 15204 Calculus II ........................................ 4 - 5

Total Mathematics hours ........................................... 4 - 5

Biology/Earth/Sciences required courses ...................... 15

- BIO 34404 Introduction to Biochemistry .................. 4
- NSC 12303 Descriptive Astronomy .......................... 3
- NSC 20303 Physical Geology .................................. 3
- NSC 22304 Environmental Science .......................... 4
- NSC 33202 Laboratory Management ........................ 2
- NSC 45303 Integrated Science ............................... 3

Total Biology/Earth/Sciences hours ............................ 19

Total Curriculum Content Area hours .......................... 67 - 68

Total required hours for degree ............................... 126 - 131

Bachelor of Science – Intervention Specialist (40470)

Intervention Specialist Licensure area has specific General Education requirements. Also required are Professional Education and Curriculum Content areas. This program has been approved by ODE for Intervention Specialist Mild/Moderate K-12 Licensure.

General Education (see page 28) must include:

- BIO 11404 Principles of Biology ............................ 4
- COM 11103 Fundamentals of Speech Communication ... 3
- EDU 10201 Technological Literacy .......................... 1
- ENG 11103 Composition I .................................... 3
- ENG 11203 Composition II .................................... 3
- ENG 24103 Literary Imagination ............................ 3
- FPA 10503 Fine Arts .......................................... 3
- LA 10101 Freshman Success ................................... 1
- MTH 11505 Mathematics for Educators I .................. 5
- PSY 11103 General Psychology ............................. 3
- PHR 21103 Philosophical Inquiry .......................... 3
- PSY 21103 Human Growth & Development ............... 3

Select one of the following two courses

- HIS 13103 World Civilization I or
- HIS 13203 World Civilization II or
- SSC 11103 Introduction to Social Science ............... 3

HPE 10101 Human Wellness & Physical Fitness ............ 1

Select one of the following eleven courses

- HPE 11101 Archery
- HPE 11201 Beginning Swimming
- HPE 11401 Lifeguard Training
- HPE 11601 Golf
- HPE 11701 Swimming for Physical Fitness
- HPE 11901 Folk & Social Dance
- HPE 12401 Badminton
- HPE 13101 Conditioning for Physical Fitness
- HPE 13301 Racquetball
- HPE 13401 Weight Training
- HPE 19801 Walking for Physical Fitness ................. 1

Total General Education hours ................................ 45

Professional Education required courses

- EDU 10303 School and Community ........................ 3
- EDU 11601 Field Experience: Cultural Diverse Settings
  Must take the following two courses concurrently
  - EDU 20401 Integrated Classroom Management & Learning Environment ........... 1
  - EDU 20403 Planning for Instruction ........................ 3
  - EDU 22403 Educating the Exceptional Learner ............... 3
  - EDU 30302 Multicultural Relations .......................... 2
  - EDU 32503 Adolescent to Young Adult Content Area Reading .................. 3
  - EDU 33302 Integrating Educational Technology into the Curriculum ............ 2
  - EDU 39103 Junior Field Experience ........................... 3
  - EDU 41403 Educational Psychology .......................... 3
  - EDU 48504 Science Methods & Intervention Techniques for Adolescent to Young Adult .... 4
  - EDU 48901 Portfolio ........................................... 1
  - EDU 49310 Clinical Practice in the Adolescent to Young Adult Setting .......... 10

Total Professional Education hours ................................ 39

Physical Science Core required courses

- CHM 15505 General Chemistry II .......................... 5

CHM 26202 Organic Chemistry Laboratory I ............... 2
CHM 26303 Organic Chemistry Theory I ................... 3
CHM 27202 Organic Chemistry Laboratory II .............. 2
CHM 27303 Organic Chemistry Theory II ................... 3
PHY 20505 General Physics I with Calculus ............... 5
PHY 21505 General Physics II with Calculus ............... 5

Total Physical Science Core ........................................... 25

Additional Physics required courses

- PHY 37303 Thermodynamics ................................. 3
- PHY 46404 Modern Physics .................................... 4
- PHY 47303 Electronics for Scientists ....................... 3

Total additional Physics hours ................................. 10

Mathematics required courses

Select one of the following two courses

- MTH 11505 Calculus I or
- MTH 15204 Calculus II ........................................ 4 - 5

Total Mathematics hours ........................................... 4 - 5

Biology/Earth/Sciences required courses ...................... 15

- BIO 34404 Introduction to Biochemistry .................. 4
- NSC 12303 Descriptive Astronomy .......................... 3
- NSC 20303 Physical Geology .................................. 3
- NSC 22304 Environmental Science .......................... 4
- NSC 33202 Laboratory Management ........................ 2
- NSC 45303 Integrated Science ............................... 3

Total Biology/Earth/Sciences hours ............................ 19

Total Curriculum Content Area hours .......................... 67 - 68

Total required hours for degree ............................... 126 - 131
HPE 13101 Conditioning for Physical Fitness
HPE 13301 Racquetball
HPE 13401 Weight Training
HPE 19801 Walking for Physical Fitness ........... 1

Total General Education hours .................................. 40

Intervention Specialist Professional Education required courses
EDU 10303 School and Community ...................... 3
EDU 11601 Field Experience: Cultural Diverse
Settings .......................................................... 1

Must take the following two courses concurrently
EDU 20401 Integrated Classroom Management &
Learning Environment ........................................ 3
EDU 25403 Professionalism and Ethical Practices for
Intervention Specialists ........................................... 3
EDU 24503 Integrated Language Arts/Social Studies
Methods for Intervention Specialists .................... 3
EDU 30302 Multicultural Relations ......................... 2
EDU 33302 Integrating Educational Technology into the
Curriculum ....................................................... 2

EDU 34203 Content Area Reading for Intervention
Specialists/Multi-Age ............................................. 3
EDU 34303 Phonics for Intervention Specialists ........ 3
EDU 34403 Reading Methods for Intervention
Specialists ............................................................ 3
EDU 39103 Junior Field Experience ....................... 3
EDU 41403 Educational Psychology ......................... 3
EDU 44403 Reading Assessment & Development .... 3
EDU 48104 Math Methods & Intervention Techniques
for Intervention Specialists ..................................... 4
EDU 48901 Portfolio ............................................... 1
EDU 49810 Clinical Practice: Intervention Specialist
Mild/Moderate .................................................... 10

Intervention Specialist Professional Education hours ...... 51

Curriculum Content Area required courses
EDU 11403 Art in the Curriculum ............................... 3
EDU 25403 Professionalism and Ethical Practices for
the Intervention Specialist ....................................... 3
EDU 26103 Introduction to Students with
Mild/Moderate Disabilities .................................. 3
EDU 30202 Parents, Community and School
Communication ................................................... 2
EDU 34102 Behavior Management for Mild/Moderate
Educational Needs ............................................... 2
EDU 35201 Technology for Special Populations ....... 1
EDU 35303 Assessment for Special Education .......... 3
EDU 36503 Special Education Programming I ........ 3
EDU 46402 Special Education Programming II ....... 2
EDU 47403 Collaboration for Special Education
Programming ........................................................ 3
ENG 24603 Children’s Literature ............................. 3
HPE 20103 Physical Education Class Activities
Ages 3 - Grade 9 .................................................. 3
HPE 41403 Physical Education for Exceptional
Children .................................................................. 3
MTH 11604 Mathematics for Educators II .............. 4

Any Science course (3 - 4 hours) ................................ 3 - 4
Select one of any of the following five courses
HIS 24103 Latin America
HIS 34203 Africa
HIS 34303 Middle East
HIS 34503 Far East
HIS 34603 Russia .................................................. 3

Total Curriculum Content Area hours ......................... 45-45

Total required hours for degree ............................... 137 - 140

Bachelor of Science – Multi-Age*

The Multi-Age Licensure area has specific General Education
requirements. Also required are Professional Education and
Curriculum Content areas. Students electing to pursue the Multi-
Age Licensure program may select one program from three program

*URG degree codes for this licensure area are:
40453 – Multi-Age Music
40454 – Multi-Age Physical Education
40451 – Multi-Age Visual Arts

Multi-Age Music (40453)

General Education (see page 28) must include:
COM 11103 Fundamentals of Speech Communication ... 3
Select one of the following two courses
BIO 11404 Principles of Biology
BIO 12104 Biology I .................................................. 4
Select one of the following five courses
CHM 10404 Principles of Chemistry
CHM 15005 General Chemistry I
NSC 12303 Descriptive Astronomy
NSC 22304 Environmental Science
PHY 10404 Principles of Physics ................................ 3-5
ENG 11103 Composition I ........................................... 3
ENG 11203 Composition II ........................................... 3
ENG 24103 Literary Imagination ................................ 3
LA 10101 Freshman Success ..................................... 1
Select one of the following three courses
MTH 14505 Pre-Calculus
MTH 21404 Introductory Probability & Statistics
MTH 15105 Calculus I .................................................. 4-5
MUS 10403 Music Appreciation ................................ 3
PHR 21103 Philosophical Inquiry ............................ 3
Select one of the following two courses
HIS 13103 World Civilization I or
HIS 13203 World Civilization II ............................... 3
EDU 10201 Technological Literacy ............................ 1
PSY 11103 General Psychology ............................... 3
PSY 21103 Human Growth & Development ............. 3
HPE 10101 Human Wellness & Physical Fitness ...... 1
Select one of the following eleven courses
HPE 11101 Archery
HPE 11201 Beginning Swimming
HPE 11401 Lifeguards and Training
HPE 11601 Golf
HPE 11701 Swimming for Physical Fitness
HPE 11901 Folk & Social Dance
HPE 12401 Badminton
HPE 13101 Conditioning for Physical Fitness
HPE 13301 Racquetball
HPE 13401 Weight Training
HPE 19801 Walking for Physical Fitness .................. 1

Total General Education hours ................................ 41 - 44

Professional Education required courses
EDU 10303 School and Community ......................... 3
EDU 11601 Field Experience: Cultural Diverse
Settings ................................................................. 1

Must take the following two courses concurrently
EDU 20401 Integrated Classroom Management &
Learning Environment ......................................... 1
EDU 24503 Planning for Instruction .......................... 3
EDU 22403 Educating the Exceptional Learner..............3
EDU 30302 Multicultural Relations.......................2
EDU 33302 Integrating Educational Technology into the Curriculum........................................2
EDU 34203 Content Area Reading for IS/Multi-Age.....3
EDU 39103 Junior Field Experience......................3
EDU 41403 Educational Psychology........................3
EDU 48901 Portfolio............................................1
EDU 49710 Clinical Practice: Music......................10
MUS 44502 Early to Middle Childhood Music Methods..........................................................2
MUS 44602 Adolescent to Young Adult Music Methods: Choral.................................................2
MUS 44702 Adolescent to Young Adult Music Methods: Instrumental..........................................2
Total Professional Education hours........................41

Curriculum Content Area required courses
MUS 10501 Portfolio.............................................1
MUS 1000 Concert Attendance................................0
MUS 10302 Aural Training I.................................2
MUS 10402 Aural Training II.................................2
MUS 12103 Music Theory I....................................3
MUS 12203 Music Theory II....................................3
MUS 14301 Computers in Music.............................1
MUS 20302 Aural Training III..............................2
MUS 20402 Aural Training IV...............................2
Select four of the following five courses (students major instrument is not required)
MUS 20502 Class Voice.........................................
MUS 20802 Brass Methods....................................
MUS 20902 String Methods...................................
MUS 21002 Woodwind Methods...........................
MUS 21102 Percussion Methods............................
Total four classes, eight credit hours......................8
MUS 22103 Music Theory III.................................3
MUS 22203 Music Theory IV..................................3
MUS 30102 Form & Analysis................................2
MUS 33103 Music History I................................3
MUS 33203 Music History II.................................3
MUS 30502 Conducting I......................................2
MUS 40102 Conducting II.....................................2
MUS 40302 Instrumental Arranging........................2
MUS 49501 Senior Music Activity........................1
Total Curriculum Content Area hours.....................45

Additional required courses
Applied Music..................................................7
Major Ensemble...............................................7
Minor Ensemble..............................................2
Total additional required hours..........................16
Total required hours for degree.........................143 - 146

Multi-Age Physical Education (40454)

General Education (see page 28) must include:
COM 11103 Fundamentals of Speech Communication...3
ENG 11103 Composition I.....................................3
ENG 11203 Composition II....................................3
LA 10101 Freshman Success................................1
Select one of the following three courses
ART 10303 Art Appreciation................................
FPA 10503 Fine Arts..........................................
MUS 10403 Music Appreciation.........................3
Select one of the following three courses
ENG 24103 Literary Imagination.........................3
HUM 20103 Humanities.....................................3
PSY 11103 General Psychology...........................3
Select one of the following three courses
ATH 12103 Anthropology...................................
HIS 12203 American History II...........................
POL 11103 American National Government............3
Select one of the following two courses
CHM 10404 Principles of Chemistry....................4.5
CHM 15005 General Chemistry............................4.5
SSC 11103 Introduction to Social Science...............3
BIO 11404 Principles of Biology..............................4
MTH 21404 Introductory Probability & Statistics........4
Select one of the following two courses
CHM 10404 Principles of Chemistry....................4.5
CHM 15005 General Chemistry............................4.5
HPE 10101 Human Wellness & Physical Fitness........1
HPE 13401 Weight Training................................1
Total General Education hours............................40 - 41

Professional Education required courses
EDU 10303 School and Community.......................3
EDU 11601 Field Experience: Cultural Diversity Settings.........................................................1
Must take the following two courses concurrently
EDU 20401 Integrated Classroom Management & Learning Environment.................................1
EDU 20403 Planning for Instruction........................3
EDU 22403 Educating the Exceptional Learner........3
EDU 30302 Multicultural Relations.......................2
EDU 33302 Integrating Educational Technology into the Curriculum........................................2
EDU 34203 Content Area Reading for Intervention Specialists/Multi-Age...............................3
EDU 39103 Junior Field Experience........................3
EDU 41403 Educational Psychology........................3
EDU 41803 Physical Education Teaching Methods: Ages 3 - Grade 9........................................3
EDU 41903 Physical Education Teaching Methods: Grade 7 - Age 21................................................3
EDU 48901 Portfolio.............................................1
EDU 49610 Clinical Practice: Physical Education..........................10
Total Professional Education hours........................41

Curriculum Content required courses
Team Sports required course
Select one of the following two courses
HPE 15103 Team Sports I.....................................3
HPE 16103 Team Sports II.....................................3
Total Team Sports..............................................3
**Total Curriculum Content hours** ................................................................. 50

**Total required hours for degree** ................................................................. 130 - 131

### Multi-Age Visual Arts (40451)

**General Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 11103</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENG 11103</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 11203</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>LA 10101</td>
<td>Freshman Success</td>
<td></td>
</tr>
<tr>
<td>PSY 11103</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHR 21103</td>
<td>Philosophical Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>MTH 21404</td>
<td>Introductory Probability &amp; Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Select one of the following two courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 11404</td>
<td>Principles of Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 12104</td>
<td>Biology I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Select one of the following four courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 10404</td>
<td>Principles of Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHM 15005</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>NSC 22304</td>
<td>Environmental Science</td>
<td></td>
</tr>
<tr>
<td>PHY 10404</td>
<td>Principles of Physics</td>
<td>4.5</td>
</tr>
</tbody>
</table>

**Select one of the following two courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 13103</td>
<td>World Civilization I</td>
<td></td>
</tr>
<tr>
<td>HIS 13203</td>
<td>World Civilization II</td>
<td></td>
</tr>
</tbody>
</table>

**HPE 10101 Human Wellness & Physical Fitness** ........................................ 1

**Select one of the following eleven courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE 11101</td>
<td>Archery</td>
<td></td>
</tr>
<tr>
<td>HPE 11201</td>
<td>Beginning Swimming</td>
<td></td>
</tr>
<tr>
<td>HPE 11401</td>
<td>Lifeguard Training</td>
<td></td>
</tr>
<tr>
<td>HPE 11601</td>
<td>Golf</td>
<td></td>
</tr>
<tr>
<td>HPE 11701</td>
<td>Swimming for Physical Fitness</td>
<td></td>
</tr>
<tr>
<td>HPE 11901</td>
<td>Folk &amp; Social Dance</td>
<td></td>
</tr>
<tr>
<td>HPE 12401</td>
<td>Badminton</td>
<td></td>
</tr>
<tr>
<td>HPE 13101</td>
<td>Conditioning for Physical Fitness</td>
<td></td>
</tr>
<tr>
<td>HPE 13301</td>
<td>Racquetball</td>
<td></td>
</tr>
<tr>
<td>HPE 13401</td>
<td>Weight Training</td>
<td></td>
</tr>
<tr>
<td>HPE 19801</td>
<td>Walking for Physical Fitness</td>
<td></td>
</tr>
</tbody>
</table>

**Total Education Education hours** .................................................................. 33-34

**Professional Education required courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 10201</td>
<td>Technological Literacy</td>
<td></td>
</tr>
<tr>
<td>PSY 21103</td>
<td>Human Growth &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>EDU 10303</td>
<td>School and Community</td>
<td></td>
</tr>
<tr>
<td>EDU 11601</td>
<td>Field Experience: Cultural Diverse Settings</td>
<td></td>
</tr>
</tbody>
</table>

**Must take the following two courses concurrently**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 20401</td>
<td>Integrated Classroom Management &amp; Learning Environment</td>
<td></td>
</tr>
<tr>
<td>EDU 20403</td>
<td>Planning for Instruction</td>
<td></td>
</tr>
<tr>
<td>EDU 22403</td>
<td>Educating the Exceptional Learner</td>
<td></td>
</tr>
<tr>
<td>EDU 30302</td>
<td>Multicultural Relations</td>
<td>2</td>
</tr>
<tr>
<td>EDU 33302</td>
<td>Integrating Educational Technology into the Curriculum</td>
<td></td>
</tr>
<tr>
<td>EDU 34203</td>
<td>Content Area Reading for IS/Multi-Age</td>
<td></td>
</tr>
<tr>
<td>EDU 39103</td>
<td>Junior Field Experience</td>
<td></td>
</tr>
<tr>
<td>EDU 41403</td>
<td>Educational Psychology</td>
<td></td>
</tr>
<tr>
<td>EDU 41504</td>
<td>Integrated Visual Arts Methods I</td>
<td></td>
</tr>
<tr>
<td>EDU 42504</td>
<td>Integrated Visual Arts Methods II</td>
<td></td>
</tr>
<tr>
<td>EDU 48901</td>
<td>Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>EDU 49410</td>
<td>Clinical Practice: Visual Arts</td>
<td>10</td>
</tr>
</tbody>
</table>

**Total Professional Education hours** ............................................................ 47

**Curriculum Content required courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 10404</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 10503</td>
<td>Three-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 12403</td>
<td>Drawing</td>
<td></td>
</tr>
<tr>
<td>ART 12301</td>
<td>Art Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>ART 23201</td>
<td>Exhibits</td>
<td>1</td>
</tr>
<tr>
<td>ART 20104</td>
<td>Raster Graphics</td>
<td></td>
</tr>
<tr>
<td>ART 15404</td>
<td>Western Art History I</td>
<td></td>
</tr>
<tr>
<td>ART 25404</td>
<td>Western Art History II</td>
<td></td>
</tr>
<tr>
<td>ART 36503</td>
<td>Non-Western Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 46503</td>
<td>Art History Philosophy &amp; Criticism</td>
<td>3</td>
</tr>
<tr>
<td>ART 28604</td>
<td>Painting I</td>
<td></td>
</tr>
<tr>
<td>ART 24504</td>
<td>Sculpture I</td>
<td></td>
</tr>
<tr>
<td>ART 23504</td>
<td>Ceramics I</td>
<td></td>
</tr>
<tr>
<td>ART 21504</td>
<td>Printmaking I</td>
<td></td>
</tr>
</tbody>
</table>

**Total Curriculum Content hours** .................................................................. 45

**Total Hours required for graduation** ......................................................... 126
Reading Endorsement Coursework Inventory

All reading courses included in the endorsement program address the standards set forth by the Ohio Department of Education and the IRA/NCTE guidelines for Reading and Reading Assessment. These courses have been approved by the Ohio Department of Education for the University of Rio Grande’s licensure programs in Early Childhood, Middle Childhood, Adolescent to Young Adult, Intervention Specialist, and Multi-Age. Courses marked with an asterisk (*) are endorsement courses needed in addition to licensure requirements.

Early Childhood

EDU 22503 Content Area Reading for Early Childhood Content Area Reading for Early Childhood
EDU 24303 Early Childhood Integrated Language Arts/Social Studies Methods
EDU 30503 Phonics for Early Childhood
EDU 31403 Reading Methods for Early Childhood
EDU 44403 Reading Assessment & Development Reading Assessment and Development
ENG 24603 Children’s Literature
*ENG 24703 Adolescent to Young Adult Literature

Middle Childhood

EDU 23503 Content Area Reading for Middle Childhood
EDU 33203 Phonics for Middle Childhood
EDU 33403 Reading Methods for Middle Childhood
EDU 44403 Reading Assessment & Development ENG 24603 Children’s Literature
ENG 24703* Adolescent to Young Adult Literature

Intervention Specialist

EDU 24503 Integrated Language Arts/Social Studies Methods for Intervention Specialists
EDU 34203 Content Area Reading for Intervention Specialists/ Multi-Age
EDU 34303 Phonics for Intervention Specialists
EDU 34403 Reading Methods for Intervention Specialists
EDU 44403 Reading Assessment & Development ENG 24603 Children’s Literature
*ENG 24703 Adolescent to Young Adult Literature

Adolescent to Young Adult

EDU 32503 Adolescent to Young Adult Content Area Reading
EDU 33203 Phonics for Middle Childhood
EDU 33403 Reading Methods for Middle Childhood
EDU 48604 Integrated Language Arts Methods for Adolescent to Young Adult
*EDU 44403 Reading Assessment & Development
*ENG 24703 Adolescent to Young Adult Literature (Additional course for those with no Language Arts concentration)

Multi-Age

*EDU 24503 Integrated Language Arts/Social Studies Methods for Intervention Specialists
EDU 34203 Content Area Reading for Intervention Specialists/ Multi-Age
*EDU 34303 Phonics for Intervention Specialists
*EDU 34403 Reading Methods for Intervention Specialists
*EDU 44403 Reading Assessment & Development
*ENG 24603 Children’s Literature
*ENG 24703 Adolescent to Young Adult Literature

Sports and Exercise Studies

The Sports and Exercise Studies curriculum will provide students with an opportunity to study Sport and Physical Fitness without seeking teacher certification. This major will allow students to pursue career goals related to fitness center operations or in the marketing of sport/exercise products. The capstone activity for Sport and Exercise Studies majors is a 100 hour internship that requires the student to perform as an entry level employee in either a fitness center or a retail marketing placement.

Bachelor of Science – Sports and Exercise Studies (7441)

General Education (see page 28) must include:

- BIO 11404 Principles of Biology ........................................ 4
- BIO 21404 Human Anatomy & Physiology I .......................... 4
- CHM 10404 Principles of Chemistry .................................. 4
- CS 10103 PC Applications .................................................. 3
- MTH 21404 Introductory Probability & Statistics .................... 4
- PSY 21103 Human Growth & Development .......................... 3

Total General Education hours .............................................. 42

Major Area required courses

- HPE 10403 Introduction to Sport & Exercise Professions ..................... 3
- HPE 24302 Safety & First Aid .............................................. 2
- HPE 25201 Treatment of Athletic Injuries .................................. 1
- HPE 26202 Drug Education ................................................ 2
- HPE 32403 Evaluation of Human Physical Performance ................. 3

- HPE 34403 Introduction to Biomechanics .................................. 3
- HPE 36203 Nutrition for Sports & Exercise ................................ 3
- HPE 40403 Exercise Physiology ............................................. 3
- HPE 41403 Physical Education for Exceptional Children ............... 3
- HPE 43403 Motor Learning .................................................. 3
- HPE 48403 Administration of Physical Activity Programs ............... 3
- HPE 49804 Sports and Exercise Internship ................................ 4
- HPE 10101 Field Experience: College I .................................... 1
- Plus 5 additional HPE activity courses (1 hour each) ................. 5

Select one of the following two courses

- HPE 15103 Team Sports I or HPE 16103 Team Sports II ................ 3

Select one of the following three Officiating courses

- HPE 22201 Officiating Softball/Baseball
- HPE 22301 Officiating Basketball
- HPE 22401 Officiating Volleyball ......................................... 1

Select one of the following five Coaching courses

- HPE 25302 Coaching Football
- HPE 25402 Coaching Baseball
- HPE 25502 Coaching Track and Field
- HPE 25602 Coaching Baseball and Softball
- HPE 25702 Coaching Volleyball ........................................... 2

Total Major Area hours .......................................................... 45

Selected Minor and Personal electives ......................................... 29

Total hours needed to graduate ............................................. 116
Career-Technical Teacher Licensure Program

The primary purposes of the 27-hour Career-Technical Licensure program are to: provide a Licensure Program for Career-Technical teachers; provide professional development opportunities for the certified career-technical teachers; and to evaluate credentials of individuals desiring to become career-technical teachers. The 27-hour In-service Licensure Program for teachers recruited from business and industry requires actual employment in the occupational area for which approval for a teaching licensure is requested. Teachers must be knowledgeable and current in their field, currently employed by a District, or seeking employment in a District. The following is the required sequence of courses that must be completed at the University of Rio Grande for an Ohio Career-Technical License in the program for Career-Technical Teachers Recruited from Business and Industry.

Career-Technical Teacher Licensure Program (4002)

Career-Technical Teacher Licensure courses must include:

- EDU 10201 Technological Literacy .................................................. 1
- EDU 12503 Content Reading Career Technical .............................. 3
- EDU 20003 Planning for Instruction/Classroom
  Mgmt .......................................................................................... 3
- EDU 22102 Observation and Visitation I (yr.1)
  (Domain A) ............................................................................... 2
- EDU 22202 Observation and Visitation II (yr.1)
  (Domain D) ............................................................................... 2
- EDU 24002 Foundations of Learning and Teaching ..................... 2
- EDU 24101 Assessment of Learning and Teaching .................... 1
- EDU 26102 Observation and Visitation I (yr.2)
  (Domain B) ............................................................................... 2
- EDU 26201 Observation and Visitation II (yr.2)
  (Domain C) ............................................................................... 1
- EDU 27002 Curriculum Alignment (CT) ................................. 2
- EDU 27702 Diversity of Learners .......................................... 2
- EDU 28003 Student-Centered Leadership .................................. 3
- EDU 28502 Professional Development ..................................... 2
- EDU 28601 Professional Preparation for PRAXIS III .............. 1

Total Professional Education hours .................................................................... 13
Total hours needed to graduate .................................................................... 71

*These credit hours are awarded for experience, training, certificates, and licenses in a specific career technical field. (See the Life Experience Credit section in Academic Programs, Policies, and Services of this catalog.

Associate of Applied Science - Pre Kindergarten:
Two-Year Licensure Program (4021)

Pre Kindergarten Licensure area has specific General Education requirements. Also required are Professional Education and Curriculum Content areas.

General Education (see page 28) must include:

- ENG 11103 Composition I ................................................................. 3
- ENG 11203 Composition II ............................................................... 3
- FPA 10503 Fine Arts ....................................................................... 3
- HPE 10101 Human Wellness & Physical Fitness .......................... 1
- HPE Activity I hour ..................................................................... 1
- MTH 11403 Intermediate Algebra ................................................ 3
- PSY 11103 General Psychology .................................................... 3
- PHR 21103 Philosophical Inquiry .................................................. 3
- SSC 11103 Introduction to Social Science .................................... 3

Total General Education hours .................................................................... 23

Career Technical Curriculum courses must include:

- EDU 27302 Career-Technical Education Linkages ............. 2
- EDU 20003 Planning for Instruction/Classroom
  Mgmt .......................................................................................... 3
- EDU 22102 Observation and Visitation I (yr.1)
  (Domain A) ............................................................................... 2
- EDU 22202 Observation and Visitation II (yr.1)
  (Domain D) ............................................................................... 2
- EDU 24002 Foundations of Learning and Teaching ............. 2
- EDU 26102 Observation and Visitation I (yr.2)
  (Domain B) ............................................................................... 2
- EDU 26201 Observation and Visitation II (yr.2)
  (Domain C) ............................................................................... 1
- EDU 27002 Curriculum Alignment (CT) ................................. 2
- EDU 28003 Student-Centered Leadership .................................. 3
- Career Technical Life Experience Credit* .................................. 16

Total Career-Technical Curriculum hours ................................................. 35

Professional Education courses must include:

- EDU 10201 Technological Literacy .............................................. 1
- EDU 12503 Content Reading Career Technical ......................... 3
- EDU 24101 Assessment of Learning and Teaching .................. 1
- EDU 26103 Introduction to Students with
  Mild/Moderate Disabilities ....................................................... 3
- EDU 27002 Diversity of Learners .............................................. 2
- EDU 28502 Professional Development ..................................... 2
- EDU 28601 Professional Preparation for PRAXIS III .............. 1

Total Professional Education hours .................................................................... 13
Total hours needed to graduate .................................................................... 71

*These credit hours are awarded for experience, training, certificates, and licenses in a specific career technical field. (See the Life Experience Credit section in Academic Programs, Policies, and Services of this catalog.

Associate of Applied Science - Pre Kindergarten:
Two-Year Licensure Program (4021)

Pre Kindergarten Licensure area has specific General Education requirements. Also required are Professional Education and Curriculum Content areas.

General Education (see page 28) must include:

- COM 11103 Fundamentals of Speech Communication ....... 3
- ENG 11103 Composition I ................................................................. 3
- LA 10101 Freshman Success ....................................................... 1
- PSY 11103 General Psychology .................................................... 3
- PSY 21103 Human Growth & Development ........................ 3
- MTH 11505 Mathematics for Educators I ......................... 5
- HPE 10101 Human Wellness & Physical Fitness .............. 1

Select one of the following eleven courses

- HPE 11101 Archery
- HPE 11201 Beginning Swimming
- HPE 11401 Lifeguard Training
- HPE 11601 Golf
- HPE 11701 Swimming for Physical Fitness
- HPE 11901 Folk & Social Dance
- HPE 12401 Badminton
- HPE 13101 Conditioning for Physical Fitness
- HPE 13301 Racquetball
- HPE 13401 Weight Training
- HPE 19801 Walking for Physical Fitness .............................. 1

Total General Education hours .................................................................... 20

Professional Education required courses

Must take the following two courses concurrently

- EDU 20401 Integrated Classroom Management &
  Learning Environment ....................................................... 1
- EDU 20403 Planning for Instruction ........................................ 3
- EDU 22303 Science, Health & Nutrition Methods &
  Intervention Techniques for Early Childhood .................... 3
EDU 22403 Educating the Exceptional Learner........... 3
EDU 22503 Content Area Reading for Early Childhood............................................. 3
Total Professional Education hours.................................................. 17

Curriculum Content Area required courses
EDU 11403 Art in the Curriculum................................................. 3
EDU 11504 Theoretical & Historical Perspectives in ECD........................................... 4
EDU 20302 Basics of Early Care & Education......................... 2
EDU 22302 Observation, Assessment & Evaluation............ 2
EDU 23403 Family & Community Relations in Early Childhood............................................. 3
EDU 28302 Early Childhood Development Portfolio........ 2
EDU 29403 Early Childhood Seminar............................................. 3
HPE 16203 Nutrition ................................................................. 3
HPE 20103 Physical Education Class Activities,
Ages 3 – Grade 9......................................................... 3
HPE 24302 Safety & First Aid.................................................. 2
MTH 11604 Mathematics for Educators II................................. 4
MUS 10403 Music Appreciation.................................................. 3

Total Curriculum Content Area hours................................................. 34
Total hours needed to graduate..................................................... 71

Bachelor of Arts or Science – Minor in Health (7431)

General Education (see page 28) must include:
BIO 11404 Principles of Biology................................................. 4
BIO 21404 Human Anatomy and Physiology I......................... 4
CHM 10404 Principles of Chemistry................................................. 4
HPE 10202 Introduction to Health Education......................... 2
HPE 21403 Personal & Community Health................................. 3
HPE 24302 Safety & First Aid.................................................. 2
HPE 27303 Community Health....................................................... 3
HPE 32403 Evaluation of Human Physical Performance............................................. 3
HPE 33403 School Health Services............................................... 3
HPE 36203 Nutrition for Sports & Exercise................................. 3
Select one of the following two courses
HPE 26202 Drug Education or HPE 27502 Sex Education Seminar............................................. 2

Total General Education hours..................................................... 42
Selected Major and Personal electives............................................ 56 - 59

Total hours needed to graduate..................................................... 126

Physical Education

Associate of Arts Degree - Concentration in Physical Education (7421)

General Education (see page 28) must include:
BIO 11404 Principles of Biology................................................. 4
CHM 10404 Principles of Chemistry................................................. 4
HPE 10101 Human Wellness & Physical Fitness................................. 1
HPE 13401 Weight Training....................................................... 1
PSY 11103 General Psychology..................................................... 3
HPE 10403 Introduction to Sport & Exercise Profession............................................. 3
HPE 20103 Physical Education Class Activities,
Ages 3 - Grade 9......................................................... 3
HPE 24302 Safety & First Aid.................................................. 2
HPE 25201 Treatment of Athletic Injuries............................................. 2
Select one of the following two courses
HPE 15103 Team Sports I or HPE 16103 Team Sports II................................. 3
HPE 11101 Archery................................................................. 1
HPE 11601 Beginning Swimming............................................... 1
HPE 11901 Folk and Social Dance............................................... 1
HPE 12401 Badminton............................................................. 1
HPE 12501 Gymnastics I......................................................... 1
HPE 13301 Racquetball............................................................ 3
Personal elective................................................................. 3

Total General Education hours..................................................... 42

Total hours needed to graduate..................................................... 64
Mission Statement

The Electronic Technology Industrial Automation degree shall produce graduates who are immediately employable into entry level technical positions in a wide variety of industrial, manufacturing, power generation and production support jobs.

The Electronic Technology Industrial Automation program is a two-year technical program leading to an Associate of Applied Science Degree in Electronic Technology.

Studies in the Industrial Automation Option focus on the installation, repair, and maintenance of the electronic equipment used to control manufacturing and power generation processes. Programmable controllers, industrial controls and robotic systems integration are emphasized.

Degrees Offered

Associate of Applied Science – Electronic Technology

Bachelor of Science - Industrial Technology
(using the Associate of Applied Science in Electronic Technology degree as the first two years of the Industrial Technology degree, see Industrial Technology)

Learning Outcomes

The successful student will:

• have a working knowledge of AC and DC circuits.
• be familiar with basic electrical test equipment such as multimeters, oscilloscopes, power supplies and meggers
• be familiar with electrical safety practices and arc flash hazard protection.
• be able to test common industrial electrical components using manufacturers test procedures and basic electrical test equipment.
• be capable of troubleshooting common industrial control circuits.
• be capable of troubleshooting programmable logic control circuits.
• be familiar with closed loop feedback process control systems and related electrical components.
• the student will begin preparation for the Certified Electronics Technician examination (CET).

Facilities

Two electronics labs located in Davis Career Center are utilized for most of the electronics courses. The labs have good quality bench electronics test equipment, internet access, basic hand tools, personal safety gear, programmable controllers and various robots.

Degree Requirements

Associate of Applied Science – Electronic Technology: Industrial Automation Option (9426)

General Education (see page 28) must include:

COM 11202 Listening ............................................. 2
COM 11103 Fundamentals of Speech ............................ 3
ENG 11103 Composition I* ........................................ 3
ENG 11203 Composition II ....................................... 3
ENG 21403 Business & Technical Writing ...................... 3
IT 10103 Introduction to Info Technology or
TEC 10003 How the Internet Works ............................ 3
LA 10101 Freshman Success ..................................... 1
PHY 13303 Applied Physics ...................................... 3
Select one of the following two courses
MTH 11403 Intermediate Algebra* .............................. 3
TEC 11704 Technical Mathematics I .............................. 3
Select one of the following two courses
TEC 11804 Technical Mathematics II
MTH 21404 Intro Stats .......................................... 4
Three hour General Education course .......................... 3
Total General Education hours ................................... 31-32

Major Area required courses

MFG 11102 Blueprint Reading .................................. 2
MFG 16102 Hydraulics & Pneumatics .......................... 2
ELE 10104 Basic Electricity/Electronics ......................... 4
ELE 14004 Electronic Devices ..................................... 4
ELE 21103 Programmable Controllers I ....................... 3
ELE 21203 Programmable Controllers II ...................... 3
ELE 25003 Industrial Controls .................................... 3
ELE 27003 Robotics ................................................ 3
ELE 26004 Automatic Identification ............................ 4
ELE 28204 Maintenance & Troubleshooting .................. 4
Total Major Area hours ............................................ 32

Total required hours for degree .................................. 63-64

* Placement determined by testing.

Additional Academic Requirements

Graduation requires students to achieve a 2.00 overall GPA in all Electronics courses and a 2.00 overall GPA in all coursework in order to receive an associate’s degree.

To view and/or print a copy of the Electronics—Industrial Automation Fact sheet, which includes a suggested course sequence, visit the School of Engineering Technologies website at www.rio.edu.
Mission Statement

The Electronic Technology Network Systems courses are designed to provide students with a working knowledge of microcomputer maintenance and the design, installation, maintenance, and administration of local and wide area networks systems. Coursework is designed to prepare students to obtain A+, Network+, and Security+ certification issued by CompTIA. A limited number of paid internships are available from a local K-12 school district.

Degrees Offered

Associate of Applied Science – Electronic Technology

Learning Outcomes

The successful student will:

- Manage, maintain, troubleshoot, install and configure basic network infrastructure devices.
- Select, install, manage, and troubleshoot server hardware and network operating systems, and manage clients on these systems.
- Maintain and update a website.

Facilities

Two laboratories are located in Davis Career Center are utilized for most of the electronics courses. The networking lab has 10 servers, two firewalls, two routers, 12 switches, six wireless access points, Packeteer bandwidth management device and two network attached storage devices. A limited number of paid internships are available for students with a 3.0 GPA.

Degree Requirements

Associate of Applied Science – Electronic Technology: Network Systems Option (94201)

General Education (see page 28) must include:

- COM 11202 Listening ..............................................2
- COM 11103 Fundamentals of Speech ....................3
- ENG 11103 Composition I*..............................3
- ENG 11203 Composition II ................................3
- ENG 21403 Business & Technical Writing ..........3
- LA 10101 Freshman Success ...........................1
- PHY 13303 Applied Physics.................................3

Major Area required courses

Select one of the following two courses
- MTH 11403 Intermediate Algebra* or
- TEC 11704 Technical Mathematics I ................3

Select one of the following two courses
- TEC 11804 Technical Mathematics II or
- MTH 21404 Intro Statistics ............................4

Three hour General Education course .....................3

Total General Education hours ................................................28-29

Total Major Area hours ...........................................................35

Total required hours for degree ...........................................63-64

*Placement determined by testing.

Academic Requirements

Graduation requires students to achieve a 2.00 overall GPA in all Electronics courses and a 2.00 overall GPA in all coursework in order to receive an associate’s degree.

Additional Information

For further information, individuals interested in the Electronics—Network Systems Program may contact the Office of Admissions; University of Rio Grande/Rio Grande Community College, P.O. Box 500, Rio Grande, Ohio 45674-0500.

Applicants may also contact the University by telephone (740) 245-5353 or 1-800-282-7201 (Toll Free in OH, WV, and KY), or by fax (740) 245-7260.

To view and/or print a copy of the Electronics—Network Systems Fact sheet, which includes a suggested course sequence, visit the School of Engineering Technologies website at www.rio.edu.
Mission Statement

The English Department’s mission is to offer the gifts of reading, writing, critical thinking and interpretative analysis, context and imaginative awareness, and appreciation and value via literature, language, and writing. In practical terms, the Department provides a major and minor in English, contributes substantively to the General Education core curriculum, and prepares students for a variety of important careers. This major presents students with both the critical experience necessary to appreciate and understand literature from a wide variety of times, places, and genres and the frequent opportunity to develop their critical, creative, and professional writing abilities, including the use of electronic media.

Degrees Offered

Bachelor of Arts – Major in English
Bachelor of Arts or Science – Minor in English

Learning Outcomes

The successful student will:

- Apply critical reading and learning techniques to a variety of different genre of reading, with awareness of the historical, cultural, and social context.
- Discern various literary forms, genres, periods, and critical approaches.
- Compose essays that are mechanically and grammatically correct, coherent, and engaging, or, if creative, employing figuration with sophistication and style; if scholarly, correctly formatted and documented with the forms prescribed by their discipline.
- Apply the research process successfully, including technological resources, to various academic disciplines requiring different formats.
- Discuss, enjoy, be stimulated by, and find value in, a variety of imaginative literature via a multicultural perspective.
- Discern various literary forms, genres, periods, and critical approaches.

Facilities

The English Department is located in Robert S. Wood Hall, which opened in September, 1989. Most English classes are taught in Wood Hall, which contains an auditorium, several general classrooms, seminar rooms, two smart classrooms, and the Instructional Design and Media Center, which assists English faculty with online learning and additional technology. The offices of senior and part-time English faculty members are on the second floor. Developmental labs are taught in a smart classroom in the Jenkins Student Success Center. The Jenkins Center directly supports English courses with an open computer lab, test- and note-taking skills, English tutoring, reading and learning strategies, time management, enhancement of writing skills, and accessibility support. The Jeanette Albiez

Davis Library is essential to English research via the Library’s books, microforms, audiovisual materials, periodicals, government documents, online research databases, OhioLINK, and traditional interlibrary-loan service. Campus Computing and Networking provides general and technical information and services to support English faculty and students.

Admission Requirements and Procedures

The University of Rio Grande has a policy of open admissions. All students who enjoy reading and/or writing or who plan a career in which these things would be helpful are extended a special welcome to take English courses and perhaps major or minor in English. New students at the University take the COMPASS test, which will determine placement in the first English course. Without placement testing in writing and reading, students are required to enroll in ENG 10104 Introduction to Writing and ENG 10204 Reading and Learning Strategies.

Degree Requirements

Bachelor of Arts – Major in English (14401)

The major in English is designed primarily for students who are interested in, or enjoy, writing, reading, language, and literature. This major develops analytical reading and writing skills and practice, which are useful in a variety of careers since many professions often require grammatical accuracy, writing expertise, and critical-analysis skills. The logical thinking and clear and exact communication developed through intensive study of literature in English and writing are typically required for many positions, such as personnel relations, sales, marketing, advertising, human resources, and social work. The English major is useful for jobs in teaching, publishing, advertising, public relations, sales, marketing, advertising, human resources, and social work. English faculty and students.

General Education (see page 28) must include:

ENG 24103 The Literary Imagination (English majors should take this course within the first three semesters) .......... 3
Total General Education hours......................................... 42-43

Major Area required courses

ENG 24803 Comparative World Literature ....................3
ENG 25103 American Literature to the Civil War ..........3
ENG 25203 American Literature since the Civil War ......3
ENG 26103 British Literature to the Romantic Era .......3
ENG 26203 British Literature since the Romantic Era ...3
ENG 37103 Literature and Media ..................................3
ENG 44303 Genre Studies ...........................................3
ENG 44603 Literary Periods .........................................3
ENG 36403 Shakespeare: From Script to Stage to Screen .................................................................3
ENG 38803 Selected Topics .........................................3
ENG 45103 Major Author(s) ........................................3
Select one from the following two courses:
- ENG 22103 Creative Writing
- ENG 38103 Professional Writing
- ENG 49003 Literature and Writing Seminar
Total major area hours ................................................. 39

Selected minor and personal electives ............................ 45

Total required hours for degree .................................... 126-127

**Bachelor of Arts or Science – Minor in English (1430)**

The minor in English is designed for students who are interested in, or enjoy, writing, reading, language, and literature, but do not wish to take a major in English. This minor develops analytical reading and writing skills and practice, which are useful in a variety of careers since most professions require grammatical accuracy, writing expertise, and critical-analysis skills. The logical thinking and clear and exact communication developed through the study of literature in English and writing are typically required for many positions, such as personnel relations, sales, marketing, advertising, human resources, and social work. The English minor is useful for jobs in teaching, publishing, advertising, public relations, law, ministry, banking, industrial organization, and retail, as well as being an excellent foundation for graduate work in several fields.

General Education (see page 28) must include:
- ENG 24103 The Literary Imagination .......................... 3
Total General Education hours ................................. 42-43

Minor Area required courses
- ENG 24803 Comparative World Literature ................. 3
- Select one from the following two courses:
  - ENG 25103 American Literature to the Civil War
  - ENG 25203 American Literature since the Civil War
- Select one from the following two courses:
  - ENG 26103 British Literature to the Romantic Era
  - ENG 26203 British Literature since the Romantic Era
- Select one from the following three courses:
  - ENG 37103 Literature and Media
  - ENG 44303 Genre Studies
  - ENG 44603 Literary Periods
- Select two from the following three courses:
  - ENG 36403 Shakespeare: From Script to Stage to Screen
  - ENG 38803 Selected Topics
  - ENG 45103 Major Author(s)
- Select one from the following two courses:
  - ENG 22103 Creative Writing
  - ENG 38103 Professional Writing
- ENG 20001 Minor Portfolio (required) ...................... 1
Total minor area hours ............................................. 22

Selected major and personal electives ......................... 63 - 65

Total required hours for degree ............................... 126
Mission Statement

The mission of the environmental science program is to provide the student with the necessary background and experience in the natural and social sciences to enable the student to enter an environmental career or continue on to graduate school.

Degrees Offered

Bachelor of Science – Comprehensive Major in Environmental Science
Bachelor of Science or Arts – Minor in Environmental Science

Learning Outcomes

The successful student is able to:

- Explain, using appropriate terminology, the major concepts in environmental science including major environmental problems, their causes, consequences, and potential solutions.
- Explain the fundamentals of scientific inquiry, interpret the results of scientific investigations, and draw reasonable conclusions from data.
- Explain, using appropriate terminology, the basic principles of biology, chemistry, and geology.
- Explain, using appropriate terminology, the basic principles of the social sciences including economics, government and sociology.
- Explain, using appropriate terminology, the major environmental laws in the United States.
- Function successfully in an environmental science internship.

Facilities

The Kidd Math/Science Center opened in 1985. With an award winning masonry design, the center’s front doors open to a glass atrium with live plants and a trickling pond. A spacious lobby follows with comfortable studying facilities. Our center houses three large chemistry labs, three biology labs, one physics lab, one computer lab, lecture rooms, faculty offices and a large bent glass greenhouse that enhances the view of our campus. McKenzie Hall opened in 1997 providing math/science students along with the nursing students two large lecture halls, a variety of lecture rooms, an anatomy lab, three computer labs, faculty offices and a conference room with a beautiful view of campus and the surrounding landscape.

The campus is located in a rural area with both on and off-campus sites available for field study of streams, lakes, wetlands and woodlands.

Bachelor of Science - Comprehensive Major in Environmental Science (2342)

General Education (see page 28) must include:

- BIO 12104 Biology I ........................................... 4
- POL 11103 American National Government ......... 3
- SOC 11103 Introduction to Sociology ................ 3
- MTH 21404 Introductory Probability and Statistics ... 4
- CS 10103 PC Applications .................................. 3
- Total General Education hours .............................. 42

Major Area required courses

- BIO 12204 Biology II ........................................ 4
- BIO 20303 Ecology ......................................... 3
- BIO 21304 Microbiology .................................... 3
- BIO 35304 Field Biology and Methodology ............ 4
- BIO 47301 Senior Seminar ................................ 1
- CHM 15005 General Chemistry I .......................... 1
- CHM 15505 General Chemistry II .......................... 1
- ECO 11103 Contemporary Economics ................. 3
- NSC 20303 Physical Geology .............................. 3
- NSC 23304 Environmental Science ...................... 3
- NSC 23101 Environmental Practicum .................... 3
- NSC 49904 Directed Study Environmental Policy ...... 4
- NSC 49808 Environmental Internship .................... 8
- BIO and NSC 30000–4000 electives from list below* 10
  - BIO 31404 Vertebrate Zoology ......................... 4
  - BIO 33404 Invertebrate Zoology ....................... 4
  - BIO 35403 Field Botany ................................ 3
  - BIO 36404 Genetics .................................. 4
  - BIO 40303 Evolution .................................... 3
  - BIO 43404 Parasitology ................................ 4
  - NSC 42403 Biological Anthropology .................. 3
  - NSC 45303 Integrated Science .......................... 3

*Upper division biology courses that are part of the Wildlife and Fisheries Conservation and Management degree may also be used towards the upper division electives with approval of the environmental science coordinator. These are taught only on the Hocking Campus and are generally evening courses.

Bachelor of Science or Arts Degree - Minor in Environmental Science (2344)

General Education (see page 28) must include:
One Biology Course and One Chemistry Course

Total General Education hours .................................. 42

Minor Area required courses

- NSC 22304 Environmental Science ...................... 4
- NSC 20303 Physical Geology .............................. 3
- NSC 23101 Environmental Practicum .................... 3
- BIO 42403 Introduction to Biological Anthropology .... 4
- NSC 49904 Directed Study Environmental Policy ...... 4

Total minor area hours .......................................... 15

Selected Major and Personal elective hours .................. 69

Total required hours for degree .............................. 126

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Mission Statement

The Emerson E. Evans School of Business is a student-centered, business school dedicated to opening learning opportunities for students in leadership, collaboration, and business management. To successfully meet the challenges of the global marketplace, students develop partnerships with business owners and leaders to explore business operations and opportunities.

Degrees Offered

Bachelor of Arts or Science – Minor in Financial Economics

Learning Outcomes

Students will:

- Develop the student’s thought processes...to think clearly, reason logically, arrive at one’s own conclusions through one’s own observations, interpret data, analyze situations, evaluate evidence, discover principles, resolve problems, read rapidly with understanding, do research, stimulate his/her creative powers, to express one’s ideas orally and in writing.
- Develop good problem solving technique...the ability to think critically, evaluate evidence, apply principles of the Scientific Method, and solve problems.
- Form the students with ethical and social responsibility values and leadership qualities conducive to success...basic honesty, individual responsibility, reliability, self-discipline, perseverance, interpersonal cooperation, social awareness, and a spirit of hard work, sacrifice and dedication to spiritual values, country, community, family, and neighbor.
- Develop the student’s research & communication skills through written reports & papers, oral presentations, and class discussion so that the student will some day be able to sell his ideas to superiors, peers, and subordinates in reports and presentations in business meetings, conferences, and training sessions.
- Develop competent managers and leaders for governmental, non-profit, and business organizations to effectively serve society by productively satisfying its needs.
- Inculcate an understanding of how each Business area is affected by the global economy.
- The graduating student will be able to demonstrate core business proficiencies in the areas of accounting, economics, management, finance, marketing, international business, and information technology.

Facilities

The Bob Evans Farms Hall was built in 2001 and is the home of the Emerson E. Evans School of Business. A distinctive tower creates a central sky light in the center of the building which houses three computer labs, faculty offices, a student lounge area, large and small meeting rooms, as well as class rooms.

Accreditation

The Emerson E. Evans School of Business is accredited through the International Assembly of Colleges in Business Education (IACBE).

Degree Requirements

Bachelor of Arts or Science – Minor in Financial Economics (30330)

General Education (see page 28) must include:
- MTH 21404 Introductory Probability and Statistics........4
- IT 10103 Introduction to Information Technology.........3
Total General Education hours........................................42

Minor Area required courses
- ACC 11403 Principles of Accounting I.......................3
- ECO 11403 Microeconomics..................................3
- ECO 12403 Macroeconomics..................................3
- FIN 20403 Financial Management..........................3
- ECO 46403 Health Economics.................................3
- ECO 42403 Managerial Economics.........................3
Total minor area hours..................................................18

Major and elective hours..................................................66

Total required hours for degree.................................126
Mission Statement
The mission of the Fine Woodworking program is committed to continually providing students with the skills and knowledge required for rewarding jobs in high-end custom shops. Based upon the belief that students learn best by working on projects, our program is strongly project oriented. Hence, students will produce several pieces of fine furniture. Through the use of lectures, demonstrations and the projects we feel we can best prepare our students for careers in any of the three major woodworking fields: fine furniture, architectural millwork, and cabinetry.

Degrees Offered

Associate of Applied Science – Fine Woodworking Technology
Certificate – Fine Woodworking

Learning Outcomes
The successful student will:

- Demonstrate competence in the construction and finishing of fine woodworking projects.
- Use the “Eight steps of Dimensioning Lumber” correctly to produce finished boards that can be used to build furniture or other fine woodworking projects.
- Tune/sharpen and demonstrate use of all hand tools.
- Select and calculate lumber needs appropriately for projects.
- Demonstrate safe and effective use of power and hand tools.
- Correctly prepare and finish woodworking projects.
- Create working drawings and cut lists from photographs.

Degree Requirements

Associate of Applied Science – Fine Woodworking Technology (9424)

General Education (see page 28) must include:
- ACC 10503 General Accounting Fundamentals ................. 3
- COM 11103 Fundamentals of Speech ........................... 3
- COM 11202 Listening .............................................. 2
- ENG 11103 Composition I* .................................... 3
Select one of the following two courses:
- ENG 11203 Composition II or
- ENG 21403 Business & Technical Writing ................. 3
- ENT 24403 Small Business Management ..................... 3
- IT 10103 Introduction to Information Technology ......... 3
- LA 10101 Freshman Success .................................... 1
- MFG 13104 Manufacturing Graphic Language .......... 4
- MFG 22102 Introductory CNC .................................. 2
Select one of the following two courses:
- MTH 11403 Intermediate Algebra* or
- TEC 11704 Technical Math I .................................... 3 - 4
- HPE 10101 Human Wellness ..................................... 1
Total General Education hours .................................. 31 - 32

Major Area required courses
- FW 11104 Fundamentals of Woodworking ................. 4
- FW 11204 Mastering WW Machines .......................... 4
- FW 11404 Cutting Shapes & Profiles ......................... 4
- FW 11504 Wood Finishing ................................... 4
- FW 21104 Furniture Casework ............................... 4
- FW 21304 Turning & Carving .................................. 4
- FW 21404 Woodshop Jigs & Fixtures ......................... 4
- FW 21504 Wood Joinery ...................................... 4
Major Area required hours ..................................... 32

Total required hours for degree ................................ 63 - 64

* Placement determined by testing.

Academic Requirements

Students must achieve a 2.0 GPA or higher in all course work and a 2.0 GPA or higher in all FW courses to continue in the program and to graduate with an associate degree in Fine Woodworking.

Fine Woodworking Certificate Program (9400)

The one-year Certificate Program in Fine Woodworking provides instruction in the design and fabrication of fine furniture, cabinets, and architectural woodwork. Emphasis is placed on developing skill in the use of hand tools and machinery. Students will also develop an understanding of wood properties, proper joinery techniques, and principles of good design. Graduates of this program will have the skills and knowledge to be productive in custom furniture shops and architectural/cabinet shops.

Certificate Program must include:
- FW 11104 Fundamentals of Woodworking ................. 4
- FW 11204 Mastering WW Machines .......................... 4
- FW 11404 Cutting Shapes & Profiles ......................... 4
- FW 11504 Wood Finishing ................................... 4
- FW 21104 Furniture Casework ............................... 4
- FW 21304 Turning & Carving .................................. 4
- FW 21404 Woodshop Jigs & Fixtures ......................... 4
- FW 21504 Wood Joinery ...................................... 4
- MFG 10104 Manufacturing Graphic Language .......... 4
Total required for certificate program ......................... 36

Academic Requirements

Students must achieve a 2.0 GPA or higher in all FW courses to continue in the program and to graduate with a certificate in Fine Woodworking.

To view and/or print a copy of the Fine Woodworking Fact Sheet, which includes a suggested course sequence, visit the School of Engineering Technologies website at www.rio.edu.

To view pieces of the furniture that the students have built, visit www.rio.edu/finewoodworking
Mission Statement

The General Science minor is designed to provide the student with broad experiences within the science disciplines of Biology, Chemistry, Physics, and Natural Science. The minor program provides coursework that complements several of the major programs. If Biology is selected as a major and General Science is the minor, then additional coursework from the other science areas is to be selected to meet the credit hour requirements of the program.

Facilities

The Kidd Math/Science opened in 1985. With an award winning masonry design, the center’s front doors open to a glass atrium with live plants & a trickling pond. A spacious lobby follows with comfortable studying facilities. Our center houses three large chemistry labs, three biology labs, one physics lab, one computer lab, lecture rooms, faculty offices and a large bent glass greenhouse that enhances the view of our campus. McKenzie Hall opened in 1997 providing math/science students along with the nursing students’ two large lecture halls, a variety of lecture rooms, an anatomy lab, three computer labs, faculty offices and a conference room with a beautiful view of campus and the surrounding landscape.

Degree Requirements

Bachelor of Science or Arts Degree – Minor in General Science

General Education (see page 28) must include:
- BIO 12104 Biology I ........................................................................... 4
- CHM 15505 General Chemistry II .................................................. 5
- NSC 12303 Descriptive Astronomy ................................................. 3
- NCS 20303 Physical Geology .......................................................... 3
- NCS 22304 Environmental Science ............................................... 4
Select one from the following two courses:
- PHY 17505 General Physics I with Algebra or
- PHY 20505 General Physics I with Calculus .............................. 5
Total General Education hours .......................................................... 42-45

Selective Major and Personal electives ............................................. 57 - 60

Total hours needed to graduate ....................................................... 126

Middle Childhood Teacher Licensure
Concentration in Science (See School of Education)
Mission Statement

The Associate of Arts degree in General Studies is offered to students whose educational needs are best served by a broader based curriculum. The General Education component provides the first 42-45 credit hours of the program; the remaining credit hours are to be selected from groups of electives organized so that a student will explore several disciplines in the Humanities and the Social Sciences.

Degree Offered

Associate of Arts – General Studies

Learning Outcomes

The successful student will

- Communicate effectively
- Think critically
- Develop a global perspective
- Develop an understanding of cultural diversity
- Develop a social scientific understanding of human behavior
- Develop an appreciation of the Arts, Humanities and Social Sciences in expressing and analyzing human values and life from multiple perspectives.

Degree Requirements

Associate of Arts – General Studies (9027)

General Education (see page 28) must include:

- HIS 13102 World Civilization I .................................. 3
- HIS 13203 World Civilization II ................................ 3

Total General Education hours ........................................ 42-45

A. Communication or Humanities courses selected from the following (no more than 2 courses in any one discipline):

**Art:**
- ART 15404 Western Art History I ......................... 4
- ART 25404 Western Art History II ......................... 4

**Communication:**
- COM 22103 Small Group Communication ............. 3
- COM 22204 Argumentation and Debate ................. 3
- COM 25103 Mass Communication .......................... 3

**English:**
- Select one of the following three courses:
  - ENG 24803 Comparative World Literature or
  - ENG 25103 American Lit. to the Civil War or
  - ENG 25203 American Lit. since the Civil War .... 3

- Select one of the following two courses:
  - ENG 26103 British Lit. to the Romantic Era or
  - ENG 26203 British Lit. since the Romantic Era .... 3

B. Social and Behavioral Science courses selected from the following (no more than 2 courses in any one discipline): ........................................... 9-10

**Anthropology:**
- ATH 12103 Anthropology .................................... 3
- ATH 22103 Native American Anthropology .......... 3
- ATH 23103 World Archaeology and Prehistory .... 3

**Economics:**
- ECO 11404 Introduction to Microeconomics .......... 3
- ECO 12404 Introduction to Macroeconomics ........ 3

**History:**
- HIS 12103 American History I ............................. 3
- HIS 12203 American History II ........................... 3
- HIS 22403 The Westward Movement ...................... 3
- HIS 22503 History of Ohio .................................. 3

**Political Science:**
- POL 11103 American National Government .......... 3
- POL 12103 American State Government ............... 3

**Psychology:**
- PSY 11103 General Psychology .......................... 3
- PSY 21103 Human Growth and Development .......... 3
- PSY 22803 Cognitive Psychology ........................ 3

**Sociology:**
- SOC 25103 Minority Groups ............................... 3
- SOC 25103 Social Problems .................................... 3
- SOC 25403 Marriage and Family ............................ 3
- SOC 27102 Death and Dying ................................. 2
- SOC 27203 Introduction to Aging .......................... 3

**Geography:**
- SSC 25103 Principles of Geography ................. 3

Total Social and Behavioral Science hours ......................... 9-10

Total hours needed to graduate .................................... 64

Special Note: On the recommendation of the faculty advisor and with the approval of the Dean of the College of Arts and Sciences, students with special educational objectives may substitute a maximum of twelve (12) hours from disciplines which do not appear in Sections A and B above.
Mission Statement

Degrees Offered

Bachelor of Science – Health Care Administration
Bachelor of Arts or Science – Minor in Health Care Administration

Learning Outcomes

Students will:

- Demonstrate proficiency in business communication utilizing word processing, spreadsheet, presentation, and database software.
- Identify and describe major differences between Health Education, Drug Education, and Community Health.
- Explain the legal concepts associated with business and Healthcare Administration and describe their impact on business decisions.
- Understand and develop an implementation plan, using project management methods and software.

Facilities

The Bob Evans Farms Hall was built in 2001 and is the home of the Emerson E. Evans School of Business. A distinctive tower creates a central sky light in the center of the building which houses three computer labs, faculty offices, a student lounge area, large and small meeting rooms, as well as class rooms.

Most business classes meet in Bob Evans Farms Hall with enough classroom space to house other courses on campus also.

Accreditation

The Emerson E. Evans School of Business is accredited through the International Assembly of Colleges in Business Education (IACBE).

Degree Requirements

Bachelor of Science – Comprehensive Major in Health Care Administration (30405)

The Health Care Administration would prepare students to enter management practice in a health care setting. The program prepares students for management positions in a wide variety of health care settings and facilities including, but not limited to, medical practices, hospitals, home-health organizations, health departments, and nursing homes.

General Education (see page 28) must include:
- MTH 21404 Introduction to Probability and Statistics..................4
- IT 10103 Introduction to Information Technology .........................3
Total General Education hours.....................................................42

Business Core required courses
- ACC 11403 Principles of Accounting I.................................3
- ACC 12403 Principles of Accounting II...............................3
- BM 20403 Principles of Management.................................3
- BM 27403 Introduction to Business Law...........................3
- ECO 11403 Microeconomics........................................3
- ECO 12403 Macroeconomics.......................................3
- MKT 21403 Principles of Marketing.................................3
- BM 28901 Business Portfolio (2-year Capstone)..............1
Select one of the following two courses
- FIN 20403 Financial Management or
- FIN 21403 Principles of Investment...............................3
- IT 10203 MS Office/Internet........................................3
Total Business Core hours........................................................28

Major Area required courses
- AHC 13302 Medical Terminology.................................2
- ECO 46403 Health Economics........................................3
- FIN 35403 Financial Administration- Health Care Facilities 3
- HPE 10202 Introduction to Health Education.....................2
- HPE 26202 Drug Education........................................2
- HPE 27303 Community Health.......................................3
- HPE 45202 Critical Issues in Health Seminar......................3
- HPE 45403 Administration of Health Programs..................3
- BM 44503 Project Management.....................................3
- ECO 31403 Labor Relations.........................................3
- BM 27403 Introduction to Business Law.........................3
- BM 49102 Internship/Experience in HC Management......2
- BM 48903 Business Policy (4-year Business Capstone)....3
Total major area hours...................................................................34

Personal elective hours may include minor.................................22

Total required hours for degree...............................................126
Bachelor of Arts or Science – Minor in Health Care Administration (30335)

The minor is designed for students majoring in programs including a BS degree in Business as a means of providing expanded career options.

General Education (see page 28) must include:
- MTH 21404 Introductory Probability and Statistics........4
- IT 10103 Introduction to Information Technology.........3
Total General Education hours.................................................. 42

Minor Area required courses
- ECO 11403 Microeconomics...............................................3
- ECO 46403 Health Economics.............................................3
- FIN 35403 Financial Adm. of Health Care Facilities.........3
- HPE 26202 Drug Education.................................................2
- HPE 45202 Critical Issues in Health Seminar...............2
- HPE 45403 Administration of Health Care Programs.....3
Total minor area hours............................................................. 16

Major and elective hours.......................................................... 68

Total required hours for degree............................................... 126
Mission Statement

The purpose of the Bachelor of Arts Degree with a Major in Hispanic Studies/Spanish Program is to prepare students to be knowledgeable in all areas of the major including culture and linguistic skills. Culture is emphasized throughout the program to give students the background to understand the relationship between how Spanish works linguistically and the culture of the language. The students will be prepared to work well within the Spanish speaking country and/or community, linguistically and culturally. In the global community of today, a thorough knowledge of the language skills is not enough. The students must have the knowledge and understanding of the culture to be able to be successful in professional and social situations.

Degrees Offered

Bachelor of Arts – Major in Hispanic Studies/Spanish
Bachelor of Arts or Science – Minor in Spanish

Learning Outcomes

The successful student will be able to:

• Speak, understand, read and write Spanish at or near native speaker proficiency.
• Write a college-level essay using proper written Spanish grammar and appropriate vocabulary.
• Describe and explain concepts relating to contemporary and historical Spanish and Hispanic culture.
• Converse appropriately, using appropriate vocabulary and idiomatic language, with native Spanish speakers.

The Changing Nature of Knowledge in the Discipline/Field

The one certain thing in all language study is that a language is in constant change. Language is not static knowledge. It changes due to the additions of new expressions and vocabulary coming in from new areas of study, advances in technology, and “loan words” from other languages. Language study and methods are constantly changing and evolving to meet the needs and influences of world community that is ever more interactive on a global level. Spanish has become more important internationally because many corporations have moved to Mexico, Central, and South America in order to save money. Due to the great numbers of Hispanic immigrants who have not yet learned enough English to be able to function or communicate effectively in the work place and society, there is far more demand for bilinguals in all areas of the work force in the United States. There are not enough trained people to fill all the positions.

We will address these issues and our students will develop the skills and flexibility necessary for our graduates to advance beyond the entry level positions and be able to actively engage in management and development of new programs to meet the needs of employers and society. Success in achieving our goals for this major will attract and retain students who would have otherwise attended larger universities out of this area.

Degree Requirements

Bachelor of Arts Degree – Major in Hispanic Studies/Spanish (1340)

General Education (see page 28) must include:

- SPA 21103 Intermediate Spanish I ........................................ 3
- SPA 21203 Intermediate Spanish II .................................... 3
- SPA 24103 Advanced Conversation & Communication .... 3
- SPA 33803 Spanish Linguistics ........................................... 3
- SPA 34303 Hispanic Geography and Culture .................. 3
- SPA 34503 Intro to Spanish Literature ............................. 3
- SPA 34603 Latin American Literature ............................. 3
- SPA 44703 Modern Spanish Usage ................................. 3
- ATH 48802 Selected Topics in Anthropology ................. 2
- Summer Study in Mexico .............................................. 9

Total General Education hours ........................................ 42-45

Selected Minor and Personal electives .................................. 49

Total hours needed to graduate ........................................ 126

Bachelor of Science – Minor in Spanish (1330)

General Education (see page 28) must include:

- SPA 21103 Intermediate Spanish I ........................................ 3
- SPA 21203 Intermediate Spanish II .................................... 3
- SPA 23803/33803 Spanish Linguistics .................................. 3
- SPA 24103 Advanced Conversation & Communication .... 3
- SPA 38803 Special Topics in Intermediate Spanish .......... 3

Total General Education hours ........................................ 42-45

Selected Major and Personal electives .................................. 66 - 69

Total hours needed to graduate ........................................ 126

Note: HIS 24103 Latin America is strongly recommended as one of the Personal Electives for both the degrees listed above.

The Summer Study in Mexico Program

The University of Rio Grande may offer a summer study program in Mexico that is open to all URG students, students from other universities who need language and humanities credits, and non-students who would like to study Spanish and experience life
in another country. This experience is required for majors. This program is a six-week intensive one in which students earn 9 semester hours of credit. Classes are available on any level, from no prior knowledge of Spanish to the most advanced Spanish. Directed Studies in History, Anthropology, English, and Liberal Arts are offered through professors at URG. Students will live with upper-middle-class families in Puebla, Mexico, for four weeks during the intensive classes. Most of the faculty members are Mexican University professors, and the majority are graduates from the University of the Americas, one of the best universities in Mexico. The classes are from 8:30 a.m. through 1:30 p.m., with a 30-minute break. Every afternoon there are tours to many interesting places. At the end of the four weeks, the group will have the opportunity for one more week of travel to exciting and colorful places in Mexico.
Mission Statement

A study of history should make the past more intelligible, give an insight into continuing human problems, and develop a confidence in humankind’s ability to cope with new environmental conditions. Moreover, an understanding of our own history and that of people who differ from us sharpens the critical faculties and tends to arouse a sense of social responsibility.

Degrees Offered

Bachelor of Arts – Major in History
Bachelor of Science – Major in History
Bachelor of Science – AYA Integrated Social Studies
   (see requirements listed under Education)
Associate of Arts – Concentration in History
Bachelor of Arts or Science – Minor in History

Learning Outcomes

The Student will:

- Recognize the distinction between primary and secondary sources, understand how each are used to make historical claims
- Identify how causation relates to continuity and change in global frameworks.
- Recognize connections between the past and present: i.e. locate both self and others in time and space.
- Ability to look at other societies in a comparative context and to look at one’s own society in the context of other societies.
- Demonstrate the capacity to deal with differences in interpretation.
- Critically analyze narrative structures and construct narratives.

Degree Requirements

Bachelor of Arts – Major in History (15401)

General Education (see page 28) must include:
   HIS 12203 American History II ........................................... 3
Select one from the following three courses:
   HIS 12103 American History I or
   HIS 13103 World Civilization I or
   HIS 13203 World Civilization II ........................................ 3
Select three HIS at 30000-40000 level .................................... 9
HIS 24103 Latin America .................................................... 3
Total General Education hours .............................................. 42-45

Selected Minor and Personal electives ..................................... 54-57

Plus an additional twelve (12) credit hours or equivalent in a modern language (other than his/her native tongue) ........................................... 12

Total hours needed to graduate ............................................. 126

Bachelor of Science – Major in History (1540)

General Education (see page 28) must include:
   HIS 12203 American History II
   HIS 13103 World Civilization I
   The following three courses are required.
   HIS 12103 American History I ................................. 3
   HIS 13203 World Civilization II ................................. 3
   HIS 43703 History and Historians Seminar .................. 3

Select five courses from the following ten courses:
   HIS 35103 British History I or HIS 35203 British History II
   HIS 24103 Latin America
   HIS 32103 American Cultural History I
   HIS 32203 American Cultural History II
   HIS 34303 The Middle East
   HIS 34503 Far East
   HIS 41803 Europe or HIS 42803 United States
   HIS 48801-03 Selected Topics in History
Total five courses, three credit hours each ................................ 15

Select two from the following four courses:
   HIS 22403 The Westward Movement
   HIS 22503 History of Ohio
   HIS 34203 Africa
   HIS 34603 Russia
Total two courses, three credit hours each .............................. 6

Total General Education hours ............................................. 42-45

Selected Minor and Personal electives .................................. 51 - 54

Total hours needed to graduate ............................................. 126

Associate of Arts Degree – History (1520)

General Education (see page 28) must include:
   CS 10103 PC Applications .................................................. 3
Select one from the following two courses:
   HIS 13103 World Civilization I or
   HIS 13203 World Civilization II ........................................ 3
Select four from the following five courses:
   HIS 12103 American History I
   HIS 12203 American History II
   HIS 22403 The Westward Movement
   HIS 22503 History of Ohio
   HIS 24103 Latin America
Total four courses, three credit hours each .......................... 12

Total General Education hours ............................................. 45

Personal electives ............................................................. 4

Total hours needed to graduate ............................................. 64

Bachelor of Science or Arts – Minor in History (1530)

General Education (see page 28) must include:
   HIS 12203 American History II
Select one from the following three courses:
   HIS 12103 American History I or
   HIS 13103 World Civilization I or
   HIS 12203 American History II ........................................ 3
Select three HIS at 30000-40000 level .................................. 9
HIS 24103 Latin America .................................................... 3
Total General Education hours ............................................. 42-45

Selected Major and Personal electives .................................. 66 - 69

Total hours needed to graduate ............................................. 126

Adolescent to Young Adult Teacher Licensure in Integrated Social Studies and Middle Childhood Teacher Licensure Concentration in Social Studies
(See School of Education).
Mission Statement

The objective of the Industrial Technology program is to produce a graduate with skills and knowledge needed for technical management positions in industry. Courses in Industrial Technology supplement the student’s associate degree by additional coursework in subjects not previously studied and/or more advanced courses.

Industrial Technology (IND) is a 2+2 program that provides the second two years of education leading to a Bachelor of Science Degree in Industrial Technology (BSIT). Prior to entering the program, students must have completed an Associate of Science, Associate of Applied Science or Associate of Technical Studies degree in an Engineering Technology field from a regionally accredited university, college, community college, or technical college. Industrial Technology is a comprehensive major requiring at least thirty-three (33) credit hours of 30000/40000 level coursework, a minimum of twenty-four (24) hours of Industrial Technology technical electives, and a minimum of 124 credit hours total.

BSIT graduates have found employment in industries as Manufacturing Engineers, Quality Engineering Technicians, Production Engineering Technicians, and Engineering Managers.

The student will be preparing to take the Certified Manufacturing Technologist Examination given by the Society of Manufacturing Engineers.

Degree Offered

Bachelor of Science – Industrial Technology

Learning Outcomes

The successful student will:

- have a working knowledge of business practices in industry.
- convey good people and communication skills.
- demonstrate knowledge of common practices of employer and employee relationships.

Program Admission Requirements

- Must have an approved Associate degree that can count towards the first two years of the BSIT.
- 2.0 accumulative GPA in Associates Degree

Degree Requirements

Bachelor of Science – Industrial Technology (5040)

General Education (see page 28) must include:

Select one of the following three courses

CHM 10404 Principles of Chemistry or
NSC 22304 Environmental Science or
BIO 11404 Principles of Biology

Total General Education hours.................................................4

Major Area required courses

ACC 10503 General Accounting Fundamentals.......................3
BM 20403 Principles of Management .................................3
BM or MKT courses at the 3000/40000 level.........................6
ECO 11403 Introduction to Microeconomics........................3
MFG 28102 Training Techniques........................................2
MFG 21103 Elements of Supervision.................................3
IND 45403 Certification Seminar....................................3
PHY 17505 General Physics with Algebra I..........................5

Total Major Area hours ........................................................28

Selected IND electives (minimum 27)..................................27 or more*

*Depending on the number of hours in the Associates degree.

Total required hours for degree.............................................124

NOTE: A minimum of twenty-four (24) of IND technical electives are required. Courses used for securing the Associate’s Degree cannot be used again for the BSIT.

Industrial Technology – Technical Electives

IND 30003 How the Internet Works ...................................3
IND 30104 Basic Electricity/Electronics......................4
IND 30202 Industrial Rigging ...........................................2
IND 30204 Manufacturing Graphic Language...............4
IND 30303 Microcomputer Hardware.........................3
IND 31102 Blueprint Reading for Industry ....................2
IND 31103 Programmable Controllers I .......................3
IND 31104 Schematic Diagram Reading .......................4
IND 31303 Introduction to Networking .........................3
IND 31503 Basic Welding ...............................................3
IND 32102 Introductory CNC .........................................2
IND 32104 Manufacturing Processes .........................4
IND 32202 Power Wiring and Control ..........................2
IND 32203 Basic Pipe Welding .....................................3
IND 32303 Local Area Networks ..................................3
IND 33103 Advanced Pipe Welding.........................3
IND 34103 Materials and Metallurgy .............................3
IND 33103 Pipe Welding ..............................................3
IND 33204 Power Transmission Devices ......................4
IND 34004 Electronic Devices .......................................4
IND 34103 Materials and Metallurgy .............................3
IND 34202 Quality Assurance .......................................2
IND 34303 TCP/IP ..................................................3
IND 35003 Industrial Controls .......................................3
IND 35203 Preventive Maintenance ..............................3
IND 36004 Auto Identification .......................................4
IND 36102 Hydraulics & Pneumatics ............................2
IND 36103 Weld Testing & Inspection .........................3
IND 36202 Mechanical Troubleshooting ......................2
IND 37102 Occupational Safety ....................................2
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>IND 38102</td>
<td>Training Techniques</td>
<td>2</td>
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<tr>
<td>IND 38202</td>
<td>Machine Repair/Maintenance</td>
<td>2</td>
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<tr>
<td>IND 38302</td>
<td>Time and Motion Study</td>
<td>2</td>
</tr>
<tr>
<td>IND 38502</td>
<td>Manufacturing Synthesis</td>
<td>2</td>
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<tr>
<td>IND 38602</td>
<td>Problems in Manufacturing Tech.</td>
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<tr>
<td>IND 39003</td>
<td>Power Plant Cooperative Ed. Ex.</td>
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<td>IND 40103</td>
<td>Advanced Welding</td>
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<tr>
<td>IND 41103</td>
<td>Elements of Supervision</td>
<td>3</td>
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<tr>
<td>IND 41203</td>
<td>Programmable Controllers II</td>
<td>3</td>
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<td>IND 41303</td>
<td>Computer Network Security</td>
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<tr>
<td>IND 42202</td>
<td>Advanced CNC</td>
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<td>IND 43303</td>
<td>Wireless Computer Networks</td>
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<td>IND 44202</td>
<td>Electrical Troubleshooting</td>
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<td>IND 44303</td>
<td>Network Design</td>
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<td>IND 45203</td>
<td>Plant Layout/Materials Handling</td>
<td>3</td>
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<td>IND 45403</td>
<td>Certification Seminar</td>
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<tr>
<td>IND 46102</td>
<td>Adv. Hydraulics &amp; Pneumatics</td>
<td>2</td>
</tr>
<tr>
<td>IND 47003</td>
<td>Robotics</td>
<td>3</td>
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<tr>
<td>IND 48204</td>
<td>Electronic Maintenance</td>
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<td>IND 48801-05</td>
<td>Selected Topics in IND</td>
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<tr>
<td>IND 49001-04</td>
<td>Cooperative Education Experience</td>
<td>1-4</td>
</tr>
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</table>

To view and/or print a copy of the IND Fact sheet, which includes a suggested course sequence; visit the School of Engineering Technologies website at www.rio.edu.
Mission Statement
The Emerson E. Evans School of business is a student-centered, business school dedicated to opening learning opportunities for students in leadership, collaboration, and business management. To successfully meet the challenges of the global market place, students develop partnerships with business owners and leaders to explore business operations and opportunities.

Degrees Offered
Bachelor of Science – Information Technology
Associate of Applied Business – Information Technology
Bachelor of Arts or Science – Minor in Information Technology
Certificate – Information Technology
Certificate – Database Technology

Learning Outcomes
The successful student will:

- Demonstrate core business proficiencies in the areas of accounting, economics, management, finance, marketing, international business, and information technology.
- Demonstrate proficiency in business communications utilizing word processing, spreadsheet, presentation, and database software.
- Demonstrate proficiency in developing relational databases and accessing that data through the use of Structured Query Language (SQL).
- Explain the basic concepts of modern computers and their connectivity via networking and the internet.
- Install hardware, software, networks, and develop web sites.
- Develop an implementation plan, using project management methods and software.

Facilities
The Bob Evans Farms Hall was built in 2001 and is the home of the Emerson E. Evans School of Business. A distinctive tower creates a central sky light in the center of the building which houses three computer labs, faculty offices, a student lounge area, large and small meeting rooms, as well as class rooms.

Accreditation
The Emerson E. Evans School of Business is accredited through the International Assembly of Colleges in Business Education (IACBE).

Additional Assessment Requirements for Business Majors:
All business students must take the following pre and post tests prior to graduation.

- Associate Degree – Pre-Test First Semester & Post-Test prior to graduation.
- Baccalaureate Degree – Pre-Test First Semester and Post-Test prior to graduation PLUS the Major Field Test in Business or an assigned equivalent.

Degree Requirements
Bachelor of Science – Comprehensive Major Information Technology (3049)

In this information age, there are many managerial positions in the growing field of IT. A degree in IT would prepare the student for management in this wide open field. The Information Technology Comprehensive Major equips the student to administer the organization’s management information system and its local area network for e-mail, connection with the World Wide Web, common computer problems, IT projects, etc. This also includes web development and its maintenance with possibilities of multimedia marketing and e-commerce. A second concentration in Management would equip the student to handle administrative tasks more effectively.

General Education (see page 28) must include:
- MTH 21404 Introduction to Probability and Statistics …………4
- IT 10103 Introduction to Information Technology ………………3
Total General Education hours……………………………………42

Business Core required courses
- IT 10203 MS Office Internet I………………………………… 3
- ACC 11403 Principles of Accounting I ……………………3
- ACC 12403 Principles of Accounting II ……………………3
- BM 20403 Principles of Management ………………………3
- BM 27403 Introduction to Business Law ……………………3
- ECO 11403 Microeconomics ………………………………3
- ECO 12403 Macroeconomics ………………………………3
- FIN 20403 Financial Management …………………………3
- FIN 21403 Principles of Investment ………………………3
- MKT 21403 Principles of Marketing ……………………3
- BM 28901 Business Portfolio (2-year Capstone) ..............1
Total Business Core hours………………………………………31

Major Area required courses
- IT 20103 Windows Operating System & Hardware …………3
- IT 20403 Web Development …………………………………3
- IT 20803 Database Communication ………………………3
- BM 44503 Project Management …………………………3
- IT 20303 DBMS Concepts …………………………………3
- IT 31403 E-Business …………………………………………3
- IT 30503 Visual Basic ………………………………………3
- IT 21903 Web Technology …………………………………3
- IT 41203 Enterprise Computing …………………………3
- IT 30203 Networking and Hardware ……………………3
- IT 49102 Internship/Experience in IT ……………………2
Total major area hours………………………………………32

Personal elective hours…………………………………………21

Total required hours for degree………………………………126
Associate of Applied Business – Information Technology (92203)

General Education (see page 28) must include:
- HPE 10101 Human Wellness .................. 1
- HIS 13103 World Civilization I or II ......... 3
- HIS 12203 American History I or III ......... 3
- ECO 11103 Contemporary Economics .......... 3
- COM 11103 Fund of Speech Communication .... 3
- ENG 11103 Composition I ....................... 3
- ENG 11203 Composition II ...................... 3
- ENG 21403 Business & Technical Writing ...... 3
- IT 10103 Introduction to Information Technology .... 3
- LA 10101 Freshman Success ...................... 1
- MTH 21404 Intro to Probability & Statistics .... 4
Total General Education hours ........................................ 30

Information Technology Degree Courses required courses
- IT 20103 Windows Operating System & Hardware .... 3
- IT 20403 Web Development .......................... 3
- IT 20803 Database Communication .................. 3
- BM 20403 Principles of Management ............... 3
- BM 24503 Project Management ..................... 3
- CS 20104 Computer Programming I ................. 3
Total Information Technology hours ................................ 18

IT, CS or ELE Electives ................................................. 12

Total required hours for degree ..................................... 66

Bachelor of Arts or Science – Minor in Information Technology (3039)

The minor is designed for students majoring in programs including a BS degree in Business as a means of providing expanded career options.

General Education (see page 28) must include:
- MTH 21404 Introductory Probability and Statistics .... 4
- IT 10103 Introduction to Information Technology .... 3
Total General Education hours ....................................... 42

Minor Area required courses
- IT 30103 Windows Operating System & Hardware .... 3
- IT 20403 Web Development .................................. 3
- BM 24503 Project Management ......................... 3
- IT 20303 Database Management System Concepts .... 3
- IT 31403 E-Business ........................................... 3
- IT 41203 Enterprise Computing ......................... 3
Total minor area hours .................................................. 18

Major and elective hours .............................................. 66

Total required hours for degree ..................................... 126

Certificate – Information Technology (9204)

Information Technology Certificate Courses required courses
- IT 10103 Introduction to Information Technology .... 3
- IT 10203 MS Office/Internet I ......................... 3
- IT 20103 Windows Operating System and Hardware .... 3
- IT 20403 Web Development .................................. 3
- IT 20803 Database Communications ................... 3
Total required hours for certificate ................................. 15

Certificate – Database Technology (92010)

Database Technology Certificate Courses required courses
- IT 10103 Introduction to Information Technology .... 3
- IT 20303 DBMS Concepts ................................... 3
- CS 20204 Programming I .................................... 4
- IT 20803 Database Communication ..................... 3
- IT 20403 Web Development .................................. 3
Total required hours for certificate ................................. 16
Mission Statement

The mission of the Information Technology Information Services and Support major is preparing students with a solid foundation in computer networking and hardware, service desk concepts, database administration, website design, Internet technologies, programming and enterprise computing. Knowledge and skills in these core technology areas prepare students for information technology careers in business, industry and health care.

Sample list of job titles:
Service Desk Technician
Applications Analyst
Database Administrator
Network Manager
Web Master
Server Administrator

Degree Offered

Associate of Applied Science in Information Technology – Information Services and Support (92204)

Learning Outcomes

Students will be able to:
• demonstrate knowledge of information and web technologies.
• design and manage databases.
• troubleshoot microcomputer hardware.
• troubleshoot local area network problems.
• demonstrate knowledge of service desk industry best practices.
• demonstrate knowledge of web site design.
• demonstrate basic computer programming skills.

Degree Requirements

General Education (see page 28) must include:
COM 1103 Fundamentals of Speech ..................... 3
COM 1102 Listening ........................................ 2
ENG 1103 Composition I*................................. 3
ENG 1103 Composition II ................................ 3
ENG 21403 Business & Technical Writing .......... 3
LA 10101 Freshman Success ................................ 1
MTH 11403 Intermediate Algebra ..................... 3
MTH 21404 Introduction to Probability & Statistics .... 4

Total General Education hours................................... 22

Major Area required courses:
CS 20104 Computer Programming I .................. 3
ELE 10303 Microcomputer Hardware ................ 3
ELE 11303 Introduction to Networking ............... 3
ELE 12303 Local Area Networks ....................... 3
ELE 15303 Computer Network Servers ............... 3
ELE 29003 Cooperative Education Experience ...... 3
ISS 11303 DBMS Concepts ............................. 3
ISS 12303 Database Communications ................ 3
ISS 13303 Service Desk Concepts ..................... 3
ISS 20303 Database Administration ................... 3
ISS 22303 Enterprise Computing ....................... 3
IT 10103 Introduction to Information Technology .... 3
IT 20403 Web Development ............................ 3
TEC 10003 How the Internet Works ................. 3

Total Major Area hours ...................................... 42

Total hours required for degree .......................... 66

*Placement determined by testing.

Graduation requires students to achieve a 2.0 GPA in all major courses and a 2.0 overall GPA in all coursework in order to receive an associate degree.

Additional Information:

For further information, individuals interested in the Information Technology—Information Services and Support Major may contact the Office of Admissions; University of Rio Grande/Rio Grande Community College, P.O. Box 500, Rio Grande, Ohio 45674-0500.

Applicants may also contact the University by telephone (740) 245-5353 or 1-800-282-7201 (Toll Free in OH, WV, and KY), or by fax (740) 245-7260.

To view and/or print a copy of the IT—Information Services and Support Major Fact Sheet, which includes a suggested course sequence, call the School of Engineering Technologies at 740-245-7301 or visit our website at www.rio.edu.
Mission Statement

The mission of the Information Technology – Networks Systems degree is to prepare students for careers dealing with network systems analysis, planning, and implementation. Students will gain the necessary skills to analyze network system needs for design, installation, maintenance, and management of network systems. Skills acquired will assist students to obtain computer hardware and network certifications.

This degree will prepare the student to find employment as a:

- Network Specialist
- Network Operations Analyst
- Communications Analyst
- Network Analyst
- Network Administration
- Network Maintenance and Operations
- Hardware Support/Maintenance Network Administrator
- Customer Service Coordinator
- Hardware Installations Coordinator
- Network Technician

Degree Offered

Associate of Applied Science – Information Technology: Network Systems Major

Learning Outcomes

The successful student will:

- Manage, maintain, troubleshoot, install and configure basic network infrastructure devices.
- Select, install, manage, and troubleshoot server hardware and network operating systems, and manage clients on these systems.
- Maintain and update a website.

Facilities

Lecture and laboratory exercises are performed in Davis Career Center Room 113 and Bob Evans Farms Hall Room 204.

Degree Requirements

Associate of Applied Science – Information Technology–Network Systems Major (92205)

General Education (see page 28) must include:

- COM 11103 Fundamentals of Speech .......................................................... 3
- COM 11202 Listening ......................................................................................... 3
- CS 10103 PC Applications .................................................................................. 3
- ENG 11103 Composition I* ................................................................................ 3
- ENG 11203 Composition II ................................................................................ 3
- ENG 21403 Business & Technical Writing ......................................................... 3
- LA 10101 Freshman Success ............................................................................... 3
- MTH 11403 Intermediate Algebra ...................................................................... 3
- MTH 21404 Introduction to Probability & Statistics ........................................... 4

Total General Education hours ......................................................................... 28

Major Area required courses:

- ELE 10303 Microcomputer Hardware ............................................................... 3
- ELE 15303 Network Servers ............................................................................. 3
- ELE 11303 Introduction to Networking ............................................................. 3
- ELE 14303 TCP/IP ......................................................................................... 3
- ELE 12303 Local Area Networks ................................................................. 3
- ELE 21303 Network Security ......................................................................... 3
- ELE 25303 Server Virtualization .................................................................... 3
- ELE 23303 Wireless Computer Networks .................................................... 3
- ELE 24303 Network Design ......................................................................... 3
- IT 20403 Web Development ......................................................................... 3
- MFG 21103 Elements of Supervision ............................................................. 3
- TEC 10003 How the Internet Works ............................................................... 3

Total Major Area hours ..................................................................................... 36

Total hours required for degree ....................................................................... 64

*Placement determined by testing.

Graduation requires students to achieve a 2.0 GPA in all major courses and a 2.0 overall GPA in all coursework in order to receive an associate degree.

Additional Information:

For further information, individuals interested in the Information Technology—Network Systems Major may contact the Office of Admissions; University of Rio Grande/Rio Grande Community College, P.O. Box 500, Rio Grande, Ohio 45674-0500.

Applicants may also contact the University by telephone (740) 245-5353 or 1-800-282-7201 (Toll Free in OH, WV, and KY), or by fax (740) 245-7260.

To view and/or print a copy of the IT—Network Systems Major Fact Sheet, which includes a suggested course sequence, visit the School of Engineering Technologies website at www.rio.edu.
Mission Statement

The mission of the Major in Programming and Software Development is to educate students in the areas of designing, developing, testing, documenting, implementing, and maintaining computer systems and software. Essential skill areas include: Computer System Architecture, Programming Analysis, Software Design, Application/Operating System Programming, GUI/Interface, WEB Design Utilization, and Computer Application Development.

Degree Offered

Associate of Applied Science – Information Technology: Programming and Software Development

Learning Outcomes

The successful student will be able to:

- Analyze the efficiency of existing computer software and of computer software designs.
- Demonstrate proficiency using computer-programming language.
- Work with users and business managers to develop clear, concise and correct specifications for computer software, and to test completed software to see if it meets given specifications.
- Design and implement efficient data structures for applications software.

Degree Requirements

Some of the possible job opportunities a student with this degree might consider would be Systems Analyst, Programmer Analyst, Operating Systems Specialist, Software Designer, Software Applications Specialist, Test Specialist, Software/Application Support, Database Software Technician, Entry (Junior Level) Programmer, or Senior Level Programmer.

Associate of Applied Science – Information Technology: Programming and Software Development (92206)

General Education (see page 28) must include:

- COM 1103 Fundamentals of Speech ................................3
- ECO 11403 Introduction to Microeconomics or ECO 12403 Introduction to Macroeconomics .................3
- ENG 11103 Composition I* ........................................3
- ENG 11203 Composition II ........................................3
- ENG 21403 Business & Technical Writing ..................3
- LA 10101 Freshman Success .....................................3

Select one of the following two courses
- MTH 21404 Introduction to Probability & Statistics*
- MTH 14505 Precalculus** ........................................4-5

General Education electives .........................................6

Total General Education hours ......................................28-29

Major Area required courses

- CS 10103 PC Applications ........................................3
- CS 20104 Computer Programming I ..........................4
- CS 20204 Computer Programming II ..........................4
- CS 23303 Visual Basic .............................................3
- CS 21503 Introduction to Database Systems ...............3
- CS 24303 Software Design and Development ............3
- ELE 10303 Microcomputer Hardware ......................3
- ELE 13303 Wide Area Networks .........................3
- ELE 11303 Introduction to Networking .....................3
- ELE 12303 Local Area Networks ............................3
- IT 20403 Web Development ................................3

Total Major Area hours ...............................................35

Total hours required for degree ....................................63-64

*Placement determined by testing

**For students planning on continuing into a 4-year Computer Science Degree.
Mission Statement

The mission of the Manufacturing Technology Program is to provide the local industrial and business facilities with the skilled technicians required in today’s global economy. These technicians will be skilled in metal fabrication, computer numerical control, production control, quality control, and industrial supervision. The program also provides skilled technicians in areas of Plant Maintenance and welding.

The mission of the Plant Maintenance Technology program is to prepare students for careers in industry as troubleshooting/repair technicians. The program stresses a strong electro-mechanical foundation, with an emphasis placed on the means by which the two are closely related on modern highly technical production machines. The program also requires the learner to master a strong foundation of mathematics and science coursework. This combination will produce a technician who has the technical and educational background required to quickly learn maintenance requirements of a specific production machine or process in a short period of time. The solid foundation of coursework and hands-on training in the laboratories will allow the graduate technician to quickly become a productive and promotable employee.

Learning Outcomes

The successful manufacturing technology student will:

- manufacture a finished product from verbal instructions or drawings.
- create finished products that meet assigned quality standards.
- use metal-working machines safely, and recognize unsafe or hazardous conditions of machine operation.
- demonstrate the habit of practicing safety rules and regulations, including lock/out-tag/out, on a continuous basis.
- read and explain mechanical blueprints.
- use common measuring devices used in manufacturing.
- gain access to their fields through research within their field of choice.

The successful plant maintenance student will:

- Demonstrates the habit of practicing safety rules and regulations, including lock/out-tag/out, on a continuous basis.
- Safely and correctly use common meters and measuring devices used in maintenance/repair.
- Read and interpret control circuit ladder diagrams.
- Read and interpret electrical schematic diagrams.
- Troubleshoot machine malfunctions.
- Recognize and correct unsafe or hazardous conditions of machine operations.

Degrees Offered

Associate of Applied Science – Manufacturing
Associate of Applied Science – Plant Maintenance
Certificate – Plant Maintenance
Certificate – Welding

Facilities

The Manufacturing Laboratory in the E.E. Davis Career Center is equipped with a wide range of industrial lathes, milling machines, surface grinders, MIG, TIG, and traditional electrode welding machines. The Materials & Metallurgy Laboratory includes a universal testing machine, and all the metallurgy equipment required to study the micro-structure of metals.

The Plant Maintenance Laboratory in the E.E. Davis Career Center is equipped with work stations constructed with standard industrial electrical and hydraulic components. These work stations allow students to construct and troubleshoot the actual type of electrical circuits used in industry. The lab also has industrial robots which gives the students hands-on experience in robotic interfacing as used in industrial applications.

Degree Requirements

Associate of Applied Science – Manufacturing Technology (9423)

The Associate of Applied Science Degree in Manufacturing educates technicians for careers in business and industry. The technician will be skilled in metal fabrication, computer numerical control, production control, quality control, and industrial supervision. Past graduates from this program are employed in a broad range of occupations ranging from quality control technicians for Navy ships to the Executive Secretary for a U.S. Congressman. The industrial coursework, along with a solid foundation in mathematics, science, and communications, will greatly enhance the technician’s understanding and employability in today’s highly technological manufacturing facilities.

General Education (see page 28) must include:

ENG 11103 Composition I ....................................................3
Select one of the following two courses:
   ENG 11203 Composition II or
   ENG 21403 Business/Technical Writing .........................3
COM 11013 Fundamentals of Speech .................................3
Select one of the following two courses:
   COM 22103 Small Group Discussion ................. 3 or
   COM 11202 Listening .................................................2
LA 10101 Freshman Success ........................................1
Select one of the following two courses:
   MTH 11403 Intermediate Algebra* or
   TEC 11704 Technical Math I................................. 3-4
Select one of the following two courses:
- TEC 11804 Tech Math II or
- MTH 21404 Introduction to Statistics .............. 4

Select one of the following two courses:
- IT 10103 Introduction to Information Technology or
- CS 10103 PC Applications ........................................... 3
- PHY 13303 Applied Physics ........................................ 3
- ELE 10104 Basic Electricity/Electronics ............. 4

**Total General Education hours** .................................. 29-31

**Major Area required courses**
- MFG 10104 Manufacturing Graphic Language ............ 4
- MFG 10103 Basic Welding ........................................ 3
- MFG 11102 Blueprint Reading .................................. 2
- MFG 12104 Manufacturing Processes ...................... 4
- MFG 16102 Hydraulics & Pneumatics ..................... 2
- MFG 21103 Elements of Supervision ....................... 3
- MFG 22102 Intro CNC ............................................. 2
- MFG 24103 Materials & Metallurgy ....................... 3
- MFG 24202 Quality Assurance .................................. 2
- MFG 25203 Plant Layout ......................................... 3
- MFG 27102 OSHA .................................................. 2
- MFG 28102 Training Techniques ............................ 2
- MFG 28502 Manufacturing Synthesis ..................... 2

**Total Major Area hours** ............................................. 34

**Personal non-technical elective hours** .......................... 3

**Total required hours for degree** ................................ 65 - 67

*Placement determined by Compass test.

Students must achieve a 2.00 GPA in all coursework to graduate with an associate’s degree.

**Certificate-Plant Maintenance (9403)**

**Associate of Applied Science – Plant Maintenance Technology (9427)**

The Plant Maintenance program is designed primarily for students who are interested in a career in maintenance/repair in an industrial facility.

General Education (see page 28) must include:
- **ENG 11103** Composition I ...................................... 3
  Select one of the following two courses:
  - **ENG 11203** Composition II or
  - **ENG 21403** Business/Technical Writing ............... 3
- **COM 11103** Fundamentals of Speech .................... 3
- **COM 22103** Principles of Discussion ..................... 3
- **ELE 10104** Basic Electricity/Electronics .............. 4
- **ELE 21103** Programmable Controls I .................. 3
- **ELE 25003** Industrial Controls ............................ 3
- **LA 10101** Freshman Success ................................ 1
  Select one of the following two courses:
  - **MTH 11403** Intermediate Algebra* or
  - **TEC 11704** Technical Math I ............................ 3-4
  Select one of the following two courses:
  - **TEC 11804** Tech Math II or
  - **MTH 21404** Introduction to Statistics .............. 4
  Select one of the following two courses:
  - **IT 10103** Introduction to Information Technology or
  - **CS 10103** PC Applications .................................. 3
- **PHY 13303** Applied Physics .................................. 3

**Total General Education hours** .................................. 36-37

**Major Area required courses**
- **MFG 14104** Schematic Diagram Reading .............. 4
- **MFG 14202** Power Wiring and Control ................... 2
- **MFG 16102** Hydraulics & Pneumatics ................... 2
- **MFG 26102** Advanced Hydraulics & Pneumatics ....... 2
- **MFG 24103** Materials & Metallurgy ..................... 3
- **MFG 10103** Basic Welding .................................. 3
- **MFG 27102** OSHA .............................................. 2
- **MFG 24302** Electrical Troubleshooting ................. 3
- **MFG 25303** Preventive Maintenance ................. 3
- **MFG 25102** Mechanical Troubleshooting .............. 2
- **MFG 25104** Power Transmission Devices .............. 4

**Total Major Area hours** ............................................. 30

**Personal non-technical elective hours** .......................... 3

**Total required hours for degree** ................................ 69 - 70

*Placement determined by Compass test.

Students must achieve a 2.00 GPA in all coursework to graduate with an associate’s degree.

**Certificate-Plant Maintenance (9403)**

The Plant Maintenance Certificate Program is a nine-month program designed to train or retrain current maintenance employees as maintenance technicians for jobs in industry. The program stresses a strong electro-mechanical foundation, with an emphasis placed on the means by which the two are closely related on modern highly technical production machines. The solid foundation of coursework and hands-on training in the laboratories will allow the graduate technician to quickly become a productive employee. It is designed primarily for students who are interested in a career in maintenance/repair in an industrial facility.

**Major Area required courses**
- **ELE 10104** Basic Electricity/Electronics .............. 4
- **MFG 14104** Schematic Diagram Reading .............. 4
- **MFG 14202** Power Wiring and Control ................... 2
- **MFG 16102** Hydraulics & Pneumatics ................... 2
- **MFG 24103** Materials & Metallurgy ..................... 3
- **MFG 10103** Basic Welding .................................. 3
- **MFG 27102** OSHA .............................................. 2
- **MFG 24302** Electrical Troubleshooting ................. 3
- **MFG 25303** Preventive Maintenance ................. 3
- **MFG 25102** Mechanical Troubleshooting .............. 2
- **MFG 25104** Power Transmission Devices .............. 4
- **TEC 11704** Tech Math I ...................................... 4

**Total Major Area hours** ............................................. 34

**Total required hours for certificate** ........................... 34

To receive the Plant Maintenance Certificate, student must achieve a 2.00 overall GPA in all coursework.

**Welding Certificate (9402)**

The Welding Certificate Program is a nine-month program designed to train welders for jobs relating to structural welding and fabricating applications. The program will provide the student with a strong foundation in the following fields: structural welding and fabrication, destructive and non-destructive weld testing techniques, and welding
code compliance requirements. Upon the successful completion of the program, a student will have the necessary welding skills to pass the AWS structural welding performance test. Any student, successfully passing the welding performance test, will receive welding certifications applicable to the highest level welding performance test he or she successfully performs. In addition to performing the actual welding, the student will be able to select, prepare, and perform destructive and non-destructive testing on welding specimens. In addition to welding skills, the program will require the student to complete coursework in the fields of print reading, machine tool operations (lathes, milling machines, drill presses, etc.), technical mathematics, and technical communications. This broad-based foundation will afford the students, who successfully complete the program, the opportunity to become productive employees for companies ranging from structural/fabrication welding shops to repair/rebuild machine shops.

Major Area required courses

COM 11202 Listening .................................................. 2
ENG 11103 Composition I ........................................... 3
ENG 21403 Business/Technical Writing ......................... 3
MFG 10103 Basic Welding ........................................... 3
IT 10103 Intro Information Technology ........................ 3

Select one of the following two courses

TEC 11704 Technical Mathematics I or
MTH 11403 Intermediate Algebra* .............................. 3-4
MFG 12103 Welding Test Inspection .............................. 3
MFG 11102 Blueprint Reading ........................................ 2
MFG 12104 Manufacturing Processes ............................ 4
MFG 20103 Advanced Welding ..................................... 3
MFG 24103 Materials & Metallurgy ............................... 3

Total required hours for certificate ................................ 32 - 33

*Placement determined by Compass test.

To receive the Welding Certificate, student must achieve a 2.00 overall GPA in all Manufacturing/technology-related courses and a 2.00 overall GPA in all coursework.

To view and/or print a copy of the Manufacturing, Plant Maintenance, or Welding fact sheets, which include a suggested course sequence, visit the School of Engineering Technologies website at www.rio.edu.
Mission Statement
The Emerson E. Evans School of Business is a student-centered, business school dedicated to opening learning opportunities for students in leadership, collaboration, and business management. To successfully meet the challenges of the global marketplace, students develop partnerships with business owners and leaders to explore business operations and opportunities.

Degrees Offered

Bachelor of Science – Marketing
Bachelor of Arts or Science – Minor in Marketing

Learning Outcomes

Student is able to:

• Demonstrate core business proficiencies in the areas of accounting, economics, management, finance, marketing, international business, and information technology.
• Identify marketing characteristics by researching and analyzing the external environment, while developing product, price, distribution, and promotional strategies to best meet customers’ needs.
• Explain the role of marketing within the organizational framework, through the preparation of marketing plans and research reports
• Demonstrate the use of the marketing mix (product, price, place, and promotion) to satisfy customers’ needs.
• Explain the impact of globalization on the field of marketing.
• Discuss the processes and influences involved in consumer behavior.
• Demonstrate ethical standards, practices, and theories as they relate to the field of marketing.

Facilities

The Bob Evans Farms Hall was built in 2001 and is the home of the Emerson E. Evans School of Business. A distinctive tower creates a central sky light in the center of the building which houses three computer labs, faculty offices, a student lounge area, large and small meeting rooms, as well as class rooms.

Accreditation

The Emerson E. Evans School of Business is accredited through the International Assembly of Colleges in Business Education (IACBE).

Marketing

Emerson E. Evans School of Business
College of Professional and Applied Studies

Additional Assessment Requirements for Business Majors:

All business students must take the following pre and post tests prior to graduation.

• Associate Degree – Pre-Test First Semester & Post-Test prior to graduation.
• Baccalaureate Degree – Pre-Test First Semester and Post-Test prior to graduation PLUS the Major Field Test in Business or an assigned equivalent.

Degree Requirements

Bachelor of Science – Comprehensive Major in Marketing (3043)

A degree in Marketing prepares students for the competitive global marketplace both in business and non-profit organizations. There are many opportunities in managing marketing programs and campaigns, marketing research, promotion, distribution, retailing, and customer service.

General Education (see page 28) must include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 21404 Introduction to Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>IT 10103 Introduction to Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>Total General Education hours</td>
<td>............................................................</td>
</tr>
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</table>

Business Core required courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 11403 Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 12403 Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>BM 20403 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>BM 27403 Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>ECO 11403 Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 12403 Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MKT 21403 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BM 28901 Business Portfolio (2-year Capstone)</td>
<td>1</td>
</tr>
<tr>
<td>FIN 20403 Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 21403 Principles of Investment</td>
<td>3</td>
</tr>
<tr>
<td>IT 10203 MS Office/Internet</td>
<td>3</td>
</tr>
<tr>
<td>Total Business Core hours</td>
<td>............................................................</td>
</tr>
</tbody>
</table>

Major Area required courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 43203 Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENT 44403 Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 37403 Advertising &amp; Promotion</td>
<td>3</td>
</tr>
<tr>
<td>MKT 33403 Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>MKT 49102 Internship/Experience in Marketing</td>
<td>2</td>
</tr>
<tr>
<td>MKT 34403 Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MTK 44403 International Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>
MKT 47403 Marketing Management ........................................3
BM 47903 Strategic Management (4-year Business
Capstone) ............................................................................ 3
MKT 38403 Business to Business Marketing .............. 3
Total Major Area hours ..................................................... 32

Personal elective hours ...................................................... 21

Total required hours for degree .................................... 126

 Bachelor of Arts or Science – Minor in Marketing
 (3035)

The minor is designed for students majoring in programs including a BS
degree in Business as a means of providing expanded career options.

General Education (see page 28) must include:
MTH 21404 Introductory Probability and Statistics ........4
IT 10103 Introduction to Information Technology ........ 3
Total General Education hours........................................... 42

Minor Area required courses
COM 43203 Organizational Communication ............ 3
BM 20403 Principles of Management ...................... 3
MKT 21403 Principles of Marketing ......................... 3
MKT 33403 Marketing Research .................................. 3
MKT 34403 Consumer Behavior .................................. 3
MKT 47403 Marketing Management ......................... 3
Total Minor Area hours ................................................... 18

Major and elective hours .................................................. 66

Total required hours for degree .................................... 126
Mission Statement

The mathematics department would like for all students to obtain a meaningful understanding of mathematics and an appreciation of its many applications. This includes being able to communicate their knowledge of mathematics in an effective manner and to use mathematics in a variety of problem situations. Students should come to understand the connections between the various branches of mathematics and the relationships between mathematics and other disciplines.

Degrees Offered

Bachelor of Science – Major in Mathematics
Bachelor of Science – Integrated Mathematics Education: Adolescent to Young Adult  
(see degree requirements listed under Education)
Bachelor of Science – Middle Childhood Mathematics Concentration (see degree requirements listed under Education)
Associate of Science – Concentration in Mathematics
Bachelor of Science or Arts – Minor in Mathematics

Learning Outcomes

The successful student will be able to:

- Demonstrate an understanding of mathematics as a universal language of logic and critical thinking.
- Demonstrate an understanding of abstract structures.
- Demonstrate an understanding of concepts, skills, and applications related to calculus.
- Demonstrate an understanding of the concepts, skills, and applications related to probability and statistics.
- (for prospective teachers) Demonstrate knowledge of mathematical content sufficient to become an effective teacher of school mathematics.

Facilities

The Kidd Math/Science Center opened in 1985. With an award winning masonry design, the center’s front doors open to a glass atrium with live plants & a trickling pond. A spacious lobby follows with comfortable studying facilities. Our center houses three large chemistry labs, three biology labs, one physics lab, one computer lab, lecture rooms, faculty offices and a large bent glass greenhouse that enhances the view of our campus. McKenzie Hall opened in 1997 providing math/science students along with the nursing students’ two large lecture halls, a variety of lecture rooms, an anatomy lab, three computer labs, faculty offices and a conference room with a beautiful view of campus and the surrounding landscape.

Degree Requirements

Bachelor of Science – Major in Mathematics (2840)

General Education (see page 28) must include:
- MTH 15105 Calculus I ..........................................5
- CS 20104 Computer Programming I ....................4
Total General Education hours..................................42 - 45

Major Area required courses
- MTH 15204 Calculus II ........................................4
- MTH 15304 Multivariable Calculus .......................4
- MTH 21504 Probability and Statistics I .................4
- MTH 21603 Probability and Statistics II ...............3
- MTH 25403 Discrete Mathematics .......................3
Select one from the following courses
- MTH 26603 Number Theory or MTH 27403 College Geometry .......3
- MTH 27703 Differential Equations I ..................3
- MTH 38403 Linear Algebra ................................3
- MTH 38603 Abstract Algebra ............................3
- MTH 44403 Real Variables ...............................3
- MTH Electives from 30000-40000 level ..............6
Total major area hours .........................................39

Selected Minor and Personal electives ..........................43

Total hours needed to graduate ................................126

Bachelor of Science – Integrated Mathematics Education: Adolescent to Young Adult (40432)  
(see degree requirements listed under Education)

Bachelor of Science – Middle Childhood Mathematics Concentration (see degree requirements listed under Education)

Bachelor of Science or Arts - Minor in Mathematics (2830)

General Education (see page 28) must include:
- MTH 15105 Calculus I ..........................................5
Total General Education hours..................................42 - 45

Major Area required courses
- MTH 15204 Calculus II ........................................4
- MTH 21504 Probability and Statistics I .................4
- MTH Electives (6 hours from 30000 – 40000 level) .......9
Total major area hours .........................................17

Selected Major and Personal electives ..........................64 - 67

Total hours needed to graduate (minimum) ..................126
Associate of Science – Concentration in Mathematics*

General Education (see page 28) must include:
- CS 10103 PC Applications................................. 3
- MTH 14505 Pre-calculus.................................. 5
- Any Chemistry or Physics course
Total General Education hours.............................. 42 - 45

Major Area required courses
- MTH 15105 Calculus I................................. 5
- MTH 15204 Calculus II................................. 4
- MTH Electives – 3 courses selected from
  - MTH 15304 Multivariable Calculus............... 4
  - MTH 21404 Introductory Probability and Statistics........ 4
  - Select one from the following two courses
    - MTH 21504 Probability and Statistics I or
    - MTH 25403 Discrete Mathematics............... 3 - 4
Total major area hours..................................... 20 - 21

Total hours needed to graduate ................................ 63 - 65
Mission Statement

The mission of the Department of Music is to provide a quality-learning environment for students from the University of Rio Grande/Rio Grande Community College service area and beyond. The programs focus on close personal attention for each student from a well-qualified music faculty in modern facilities. The intent of the program is to aid students who wish to pursue graduate studies or move straight into professional careers. Furthermore, the mission is to simultaneously provide many quality performance experiences through numerous outreach programs.

Furthermore, the Department of Music affords opportunities for the general college student to participate in performing ensembles, to study voice or an instrument privately (applied lessons) or in groups, and to enroll in music courses as part of the University core curriculum.

Degrees Offered

Bachelor of Arts – Music Comprehensive
Bachelor of Arts – Music Business Comprehensive
Bachelor of Science – Music Education: Multi Age
(see also degree requirements listed under Education)
Bachelor of Arts or Science – Minor in Music

Learning Outcomes

The successful student will:

- Demonstrate comprehensive capabilities in their major performing area, including the ability to work independently to prepare performances at a level appropriate to their concentration.
- Demonstrate their understanding of the common elements of music including rhythm, melody, harmony, musical forms and organizational patterns.
- Demonstrate a basic knowledge of music history through to the present time.
- Use technology to document their accomplishments as a musician throughout their college career, and prepare a professional electronic portfolio.
- Demonstrate growth in their major performing area every semester of attendance.
- Perform both solo and ensemble literature in a public concert.
- Demonstrate a basic knowledge of piano performance including the ability to play major and minor scales, perform a short solo piece, read from 4-part music, harmonize a simple melody at sight, perform a simple accompaniment, perform simple songs.

Facilities

The Rio Grande John W. Berry Fine and Performing Arts Center opened in 1981. A signature glass atrium introduces visitors to the Center and serves as an entry to the 500 seat state-of-the-art Alphus R Christensen theatre. The theatre hosts numerous university and community productions and serves as a cultural hub to residents in a five-county area of Southern Ohio and West Virginia.

Within the Center, the department of music houses a Steinway concert grand piano, studio pianos, harpsichords, electric organs, Orff instruments and woodwind and brass instruments, sound-proof practice modules, multi-purpose classrooms, rehearsal areas, a Mac computer lab, a studio theatre, and a photography lab. Students also have access to a recording lab enabling them to learn how to produce professional recordings.

Accreditation

The Bachelor of Arts – Music Business Comprehensive degree program is accredited through the International Assembly for Collegiate Business Education (IACBE).

Admission Requirements and Procedures

Since the University of Rio Grande has a policy of open-admissions, all who apply are accepted into the music program. However, the prospective student seeking admission as a music major is required to take the URG Music Theory Placement Examination to assess his/her music theory-aural training background. The results will determine whether the student is first placed in remedial music theory courses or directly into Music Theory I and Aural Training I. This initial assessment measure is the first of several which all students majoring in music will undergo throughout their college careers at URG. New students are encouraged to contact the Music Department Coordinator in advance of their first semester for advice on how to prepare for these placement exams.

Degree Requirements

Bachelor of Arts – Music Comprehensive (10411)

The Comprehensive Music program is designed primarily for students who are interested in music performance, composition, private studio teaching, graduate school, and other areas in which an extensive music background would be an asset or necessity.

General Education (see page 28) must include:

- ATH 12103 Anthropology .....................................................3
- MUS 10403 Music Appreciation .........................................3
- PHR 21103 Philosophical Inquiry ........................................3

Total General Education hours ..............................................42

Major Area required courses

- MUS 10000 Concert Attendance ........................................0
- MUS 10302 Aural Training I .............................................2
- MUS 10402 Aural Training II .............................................2
- MUS 10501 Portfolio .......................................................1
- MUS 12103 Music Theory I ..............................................3
**Bachelor of Arts — Music Business Comprehensive (10412)**

The Music Business program offers a degree that combines a strong background in music, and a diverse knowledge base in business and technology. This is ideal for the student who plans to pursue business careers requiring the talents and skills of a musician, or music careers needing a firm grasp of business practices.

**General Education (see page 28) must include:**
- MUS 10403 Music Appreciation ..............................................3
- ECO 11103 Contemporary Economics .................................3

**Total General Education hours**........................................42

**Major Area required courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 10000</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUS 10302</td>
<td>Aural Training I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 10402</td>
<td>Aural Training II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 10501</td>
<td>Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>MUS 12103</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 12203</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 14301</td>
<td>Computers in Music</td>
<td>1</td>
</tr>
<tr>
<td>MUS 20302</td>
<td>Aural Training III</td>
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</tr>
<tr>
<td>MUS 20402</td>
<td>Aural Training IV</td>
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<tr>
<td>MUS 22103</td>
<td>Music Theory III</td>
<td>3</td>
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<tr>
<td>MUS 22203</td>
<td>Music Theory IV</td>
<td>3</td>
</tr>
<tr>
<td>MUS 30502</td>
<td>Conducting I</td>
<td>2</td>
</tr>
</tbody>
</table>

Select one of the following courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 33103</td>
<td>Music History I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 33203</td>
<td>Music History II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 49003</td>
<td>Music Business Internship</td>
<td>3</td>
</tr>
<tr>
<td>MUS 49501</td>
<td>Senior Music Activity</td>
<td>1</td>
</tr>
<tr>
<td>BM 10403</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BM 32403</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BM 37403</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BM 30403</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>ACC 10501</td>
<td>General Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MKT 31403</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>JRN 33303</td>
<td>Introduction to Public Relations or Henderson</td>
<td>3</td>
</tr>
<tr>
<td>MUS 35403</td>
<td>Retail Management</td>
<td>3</td>
</tr>
<tr>
<td>THR 14403</td>
<td>Stage Audio</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select one of the following courses**

**Total Major Area hours**.............................................53

**Personal elective hours**...........................................31

**Total required hours for degree**.................................126

**Bachelor of Science — Music Education: Multi Age (40453)**

The Multi-Age Music Education program is intended to provide students with the background necessary to teach both vocal and instrumental music to ages three to twenty-one, pre-school to adult, in Ohio public schools. This program leads to Ohio licensure in Multi-Age Music. (See also School of Education)

**General Education (see page 28) must include:**
- ENG 24103 Literary Imagination ........................................3
- EDU 10201 Technological Literacy .....................................1
- PHR 21103 Philosophical Inquiry .......................................3
- PSY 11103 General Psychology ..........................................3
- PSY 21103 Human Growth & Development ................................3

**Total General Education hours**.....................................41-44

**Music Area required courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUS 10000</td>
<td>Concert Attendance</td>
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</tr>
<tr>
<td>MUS 10302</td>
<td>Aural Training I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 10402</td>
<td>Aural Training II</td>
<td>2</td>
</tr>
<tr>
<td>MUS 10501</td>
<td>Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>MUS 12103</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 12203</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 14301</td>
<td>Computers in Music</td>
<td>1</td>
</tr>
<tr>
<td>MUS 20302</td>
<td>Aural Training III</td>
<td>2</td>
</tr>
<tr>
<td>MUS 20402</td>
<td>Aural Training IV</td>
<td>2</td>
</tr>
<tr>
<td>MUS 22103</td>
<td>Music Theory III</td>
<td>3</td>
</tr>
<tr>
<td>MUS 22203</td>
<td>Music Theory IV</td>
<td>3</td>
</tr>
<tr>
<td>MUS 30102</td>
<td>Form and Analysis</td>
<td>2</td>
</tr>
<tr>
<td>MUS 30502</td>
<td>Conducting I</td>
<td>2</td>
</tr>
<tr>
<td>MUS 40302</td>
<td>Instrumental Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUS 49501</td>
<td>Senior Music Activity</td>
<td>1</td>
</tr>
<tr>
<td>MUS 33103</td>
<td>Music History I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 33203</td>
<td>Music History II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Music Methods courses: select four:* (students major instrument not required) ................................................8

* MUS 20502 Class Voice ................................................2
* MUS 20802 Brass Methods .............................................2
* MUS 20902 String Methods .............................................2
* MUS 21002 Woodwind Methods .......................................2
* MUS 21102 Percussion Methods .....................................2

**Total Music Area hours**.............................................61

**Education Area required courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 10303</td>
<td>School &amp; Community</td>
<td>3</td>
</tr>
<tr>
<td>EDU 11601</td>
<td>Field Experience: Cultural Diverse Settings</td>
<td>1</td>
</tr>
</tbody>
</table>

Must take the following two courses concurrently

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 20401</td>
<td>Integrated Classroom Management &amp; Learning Environment</td>
<td>1</td>
</tr>
<tr>
<td>EDU 20403</td>
<td>Planning for Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>
EDU 22403 Educating the Exceptional Learner.................3
EDU 30302 Multicultural Relations..............................2
EDU 33302 Integrating Educational Technology into the Curriculum.........................................................2
EDU 34203 Content Area Reading for IS/Multi-Age........3
EDU 39103 Junior Field Experience..............................3
EDU 41403 Educational Psychology..............................3
EDU 48901 Portfolio..................................................1
EDU 49710 Student Teaching: Music.........................10
MUS 44502 Early to Middle Childhood Music Methods......................................................2
MUS 44602 Adolescent to Young Adult Music Methods: Choral......................................................2
MUS 44702 Adolescent to Young Adult Music Methods: Instrumental......................................................2
Total Education Area hours........................................41

Total required hours for degree..................................143-146

Bachelor of Arts or Science – Minor in Music (1030)

General Education (see page 28) must include:
MUS 10403 Music Appreciation..................................3
Total General Education hours.....................................42-45

Minor Area required courses
MUS 10000 Concert Attendance..................................0
MUS 10302 Aural Training I........................................2
MUS 10402 Aural Training II........................................2
MUS 12103 Music Theory I.........................................3
MUS 12203 Music Theory II.........................................3
Applied music..........................................................2
Major Ensemble.......................................................3
Music Electives.........................................................3
Total Minor Area hours..............................................18

Major and elective hours............................................63-66

Total required hours for degree..................................126

Additional Requirements for all Music Majors:

Private Applied Music. Music majors must declare their major instrument the first semester of their university careers and take private lessons for credit on their instrument every semester thereafter, except during the semester of student teaching or Music Business Internship. Music majors must pass two proficiency examinations on their instrument: (1) at the end of the sophomore year, and (2) before graduation. Specific requirements are established by the applied instructors for each instrument. Senior Recital may be substituted for the semester recital during the same semester. A minimum of seven (7) credit hours is required with a minimum average grade of B.

Music Ensembles. Music majors are required to participate in either Masterworks Chorale, Symphonic Band or Symphony Orchestra for credit each semester during their university careers. The choice is dependent upon their major instrument and desired career emphasis. A minimum of seven (7) credit hours is required with a minimum average grade of B. Students who declare the guitar as their major instrument may elect to use Rock Ensemble as their Major ensemble.

In addition, students must also participate for credit for two semesters (one academic year) in ensembles, which are not common to their area of specialization. These may include Masterworks Chorale, Grande Chorale, Symphonic Band, Symphonic Orchestra, Jazz Ensemble, or Rock Ensemble.

Piano Proficiency. All Music majors are required to pass a proficiency level examination in piano before they are certified for graduation. Music Education majors must pass all piano skills before entry into the practice teaching program in the senior year. These proficiencies are usually accomplished by the end of the Sophomore year. Students are encouraged to pass all skills at a single jury of three (3) faculty persons, one of whom will be the piano instructor. Skills not passed at that time may be passed individually during any semester of study at another jury. However, no skill may be passed during a semester in which the student is not enrolled in piano for credit. The examination consists of the following requirements:

1. Material prepared in advance:
   a. Solo, Memorized – easy-to-moderate in difficulty.
   b. Scales. Up to four sharps and flats, major keys plus white-key minor scales; two hand, two octaves, ascending and descending.
   c. Patriotic Songs. Two of the three standards (America, America the Beautiful, Star-Spangled Banner), plus one from Music Department selected list.
   d. Piano Accompaniment. To a moderately easy vocal or instrumental selection. One week time limit for preparation.
   e. Four-part hymn. One week time limit for preparation.

2. Reading. The following skills must be demonstrated at sight:
   a. SATB score. Two voices together.
   b. Harmonization. Improvise a simple accompaniment to a given melody using primary triads. (Three minutes to study allowed.)

Theory, Aural Training, and History Proficiency. Music majors are required to pass a comprehensive examination covering Music Theory I-III, Aural Training I-II, and Music History I-II before the student is certified for graduation. This is usually accomplished after the student has successfully passed those courses.

Concert Attendance. All Music Majors are required to register for MUS 10000 Concert Attendance for 7 out of 8 semesters during their tenure in the music program. This pass/fail course will reinforce the Music Department policy of mandatory attendance of 80% of all performances, recitals, and portfolio presentations sponsored by the Music Department each year. Attendance will be taken at all Music Department sponsored events. Other similar concerts may be substituted with prior approval of the student’s advisor. A written evaluation of this outside concert, along with the concert notes prepared in advance:

a. one from Music Department selected list.

b. Other musicians may be utilized with approval of the student’s advisor.

c. America, America the Beautiful, Star-Spangled Banner), plus one from Music Department selected list.

d. Piano Accompaniment. To a moderately easy vocal or instrumental selection. One week time limit for preparation.

e. Four-part hymn. One week time limit for preparation.

1. Recital. The recital involves a minimum of forty-five (45) minutes of music performance on one or more instruments. Other musicians may be utilized with approval of the student’s advisor. This presentation will be made to the entire music department and the public.
2. Lecture-Recital. The Lecture-Recital involves a minimum of twenty-five (25) minutes of actual music performance, plus pertinent comments relative to the works presented. Total presentation is forty-five (45) minutes minimum. This presentation will be made to the entire music department and the public.

3. Project. The project is regarded as a creative laboratory experience, and could take the form of original compositions, arranging, conducting, or pedagogy study. There will be a presentation of the project, forty-five (45) minutes minimum, to the entire music department and the public.

The student is required to pass a pre-recital jury at least 1 (one) calendar month prior to the scheduled Senior Music Activity.

E-Portfolio Presentation. During the final college semester, the e-portfolio web pages must be presented to the entire Music major student body and Music faculty. It will be the student’s responsibility to select two peer assessors who will provide in depth comments on the e-portfolio. These peer assessors must be made with the cooperation and guidance of the advisor and the Music Department Coordinator. The e-portfolio’s web address must be submitted to the Music Department Coordinator at the beginning of the semester in which the student intends to graduate. All Music majors are required to visit the e-portfolio, which is distinct and separate from MUS 49501 Senior Music Activity and will count towards MUS 10000 Concert Attendance.
Mission Statement

The mission of the School of Nursing is to provide students with the knowledge and skills necessary to meet the challenges and opportunities encountered in the nursing profession. Recent emphasis on promotion of health, prevention of illness, as well as advances in caring for the ill, has opened new areas of employment and has created added responsibilities for practicing nurses. The School of Nursing introduces students to many opportunities for development of individual interests in varied health care settings. Today’s nurse may work in a hospital, a nursing home, a clinic, industry, the community, or physician’s office, as well as the Armed Forces. Within these settings, there is ample opportunity to care for persons with varied age groups in various medical, surgical, maternal-newborn, pediatric, and mental health needs. Nursing today offers a wide range of possibilities for the nurse to develop and progress. The School of Nursing provides a foundation for life-long learning and professional development and offers degree programs leading to an Associate of Applied Science Degree in Nursing Technology, as well as the Bachelor of Science in Nursing Degree designed specifically for registered nurses. The program of learning of the RN-BSN Program is consistent with the Philosophy and Mission of the University of Rio Grande and the Holzer School of Nursing. Through didactic academic courses and clinical rotations, each student is expected to develop knowledge and competency in critical thinking and effective decision making, use the nursing process in applying and evaluating nursing care for patients through the life cycle, and use basic research to explore issues in providing nursing care. As adult learners, students are expected to bring a unique set of life and educational experiences, values, beliefs, attitudes, expectations, and goals to the learning environment. As a result, the faculty expects that the student will be an active partner with faculty in creating a learning atmosphere that stimulates individual creativity, critical thinking, and intellectual curiosity.

Degrees Offered

Bachelor of Science in Nursing – RN-BSN Program
Associate of Applied Science – Nursing Technology

Learning Outcomes

Upon completion of the associate degree-nursing program, the graduate will be able to:

1. Function as a provider of nursing care for patients at various stages of growth and development in diverse health care delivery settings.
2. Use the nursing process to identify patient needs and provide effective nursing care focusing on promotion, maintenance, and restoration of health.
3. Use principles of teaching and learning to provide health education to patients and other members of the multidisciplinary health care team.

5. Use effective communication and collaborative skills in interactions with patients and other members of the multidisciplinary health care team.
6. Demonstrate accountability for nursing practice within the profession’s legal/ethical framework.
7. Organize and direct nursing care for individual patients, small groups of patients and families.

The graduate of the Bachelor of Science in Nursing Degree Program will be able to:

1. Synthesize and integrate knowledge from the natural and behavioral sciences, humanities, nursing theory, and research into professional nursing practice.
2. Integrate principles of communication and collaboration with members of the health care team to promote movement toward optimal levels of health for patients.
3. Integrate and synthesize the concepts and principles of critical thinking into the practice of nursing to facilitate participation in effecting change in the delivery of health care to society.
4. Develop an individualized plan for personal continued learning and professional growth as a method for adjusting to changes occurring within the health care system.

Facilities

A variety of clinical agencies are utilized as clinical experience sites each semester for various nursing courses. Those with which the School of Nursing and the University have entered into formal contractual agreements (with telephone numbers) are listed below:

1. Adena Regional Medical Center, Chillicothe, OH (740-772-7500)
2. Appalachian Behavioral Health Care, Athens, OH (740-594-5000)
3. Cabell-Huntington Hospital, Huntington, WV (304-526-2000)
4. Edgewood Manor, Wellston, OH (740-384-5611)
5. Holzer Medical Center, Gallipolis, OH (740-446-5000)
6. Holzer Medical Center, Jackson, OH (740-288-4625)
7. King’s Daughters’ Medical Center, Ashland, KY (606-327-4000)
8. Pleasant Valley Hospital, Pt. Pleasant, WV (304-675-4340)
9. Southern Ohio Medical Center, Portsmouth, OH (740-356-5000)
10. St. Mary’s Medical Center, Huntington WV (304-526-1234)
11. VA Medical Center, Chillicothe, OH (740-773-1141)
Accreditation

Assessment is an ongoing process within the School of Nursing. A variety of activities are used to assess students throughout the Nursing Program. The University of Rio Grande Holzer School of Nursing programs are approved by the National League for Nursing Accrediting Commission (NLNAC), 3343 Peachtree Rd NE, Suite 500, Atlanta, GA 30326, (404) 975-5000.

Admission Requirements and Procedures

Students are admitted into the traditional five semester Nursing Program sequence only in the Fall Semester of each year. There is a limit on the class size for the Associate Degree Nursing Program. Traditionally, Holzer School of Nursing attracts many more qualified applicants than there are spaces available for the Fall Semester. Therefore, it is advisable to apply early. L.P.N./L.V.N.s are accepted and admitted into the Advanced Placement Track only in the Summer Term of each year for the on-campus offering and the Fall Semester of each year for the on-line offering. The specific Admission Procedures and Policies are available upon request from the Admissions Office. A Cardiopulmonary Resuscitation (CPR) card (valid for the enrollment period in the School of Nursing), a completed medical history form, and the Hepatitis B Vaccination Series (and any other requirements as stipulated by the University Health Services Office) are required for admission of officially accepted students into the first semester of the Associate Degree Nursing Program or into the Advanced Placement Track. Requirements for admission into the School of Nursing are: 1) Official acceptance to the University of Rio Grande/Rio Grande Community College. The Application, all official high school and college transcripts must be submitted directly to the Admissions Office; 2) An additional Application Form for the School of Nursing must be completed. This application form is available only in the University Admissions Office. The completed application must be submitted directly to the Admissions Office by the announced application deadline. There will be one review of nursing applicants yearly; 3) High School or College cumulative GPA (GPA) (most recent): a minimum of 2.5 cumulative GPA for high school is required OR a minimum 2.5 cumulative GPA with a minimum of 12 semester hours of college level coursework is required if the college cumulative GPA is used; 4) The ACT or Compass Test is required for all nursing applicants; 5) Completion of the HESI A2 Entrance Exam. The exam fee of $60.00 is the responsibility of the applicant; 6) graduation from high school or a GED; 7) High school or college-level courses required with a final grade of “C” or better for each course: Chemistry (with lab), Algebra, and Biology (with lab).

Final acceptance into the School of Nursing will be contingent upon the above stated criteria and maintenance of a cumulative GPA of 2.5 or higher at the beginning of Fall Semester. Your acceptance into the School of Nursing will also be contingent upon a criminal background check (FBI/BCI) and a drug screen. Both background check and drug screen must be conducted by a qualified, specialized agency. A negative drug screen is mandatory. The criminal background check and drug screen must be conducted after July 1st with results sent directly to the Director, School of Nursing by August 1st.

Degree Requirements

Length of Program

While the traditional Nursing Program is designed to be completed in five (5) semesters on a full-time basis, many students may choose to take more time for a variety of reasons. Those students who wish to progress in school at a slower pace may do so by electing to complete some or all of the General Education course requirements prior to applying for admission and being admitted into the Nursing Program. Prior to a student’s official acceptance into the Nursing Program, the student is highly encouraged to clarify the process which is required for possible acceptance into the Program by contacting the Admissions Office. Enrollment in University or Community College courses neither implies nor guarantees a student eventual acceptance into the Nursing Program. The L.P.N. /L.V.N. Advanced Placement Track Program is designed to be completed in two (2) semesters and a ten week summer term for on-campus students, and four (4) semesters and two (2) ten week summer terms for on-line students.

Once a student is admitted into the Nursing Program, however, all General Education courses and required nursing courses must be taken in sequence and be successfully completed prior to enrolling in the next semester. Continuation in the Nursing Program requires a grade of “C” or better in theory for all required nursing courses and a “satisfactory” designation for the clinical experience in nursing courses where this is a requirement, and a “C” or better for all required Science courses.

Associate of Applied Science - Nursing Technology (9321)

Recommended Course Sequence

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td>Fall</td>
<td>BIO 10104 Principles of Human Anatomy &amp; Physiology I</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td>LA 10101 Freshman Success</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NUR 10101 Trends I</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NUR 10505 Nursing I</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NUR 11101 Pharmacology Math</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NUR 13101 Nursing Technology &amp; Resource Strategies</td>
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<tr>
<td></td>
<td>Spring</td>
<td>BIO 10204 Principles of Human Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIO 10302 Microbiology for Nurses</td>
<td>2</td>
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<tr>
<td></td>
<td></td>
<td>NUR 10606 Nursing II</td>
<td>6</td>
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<tr>
<td></td>
<td></td>
<td>PSY 11103 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Summer</td>
<td>COM 11103 Fund of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG 11103 Composition I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NUR 20505 Nursing III</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*(15 week semester offered in a 10 week term)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSY 21103 Human Growth &amp; Development</td>
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</table>
Second Year
Fall Semester ..........................................................17
  ENG 11203 Composition II........................................3
  NUR 21404 Nursing IV ..............................................4
  NUR 21707 Nursing V .............................................7
  SOC 11103 Intro to Sociology ..................................3

Spring Semester .................................................12
  NUR 22101 Trends II ............................................1
  NUR 22111 Nursing VI .........................................11

Total hours needed to graduate ..............................................71

Advanced Placement Track for Licensed Practical Nurses Hours

  First Year Level Proficiency Credits .....................24
  Nursing Transition Course Credits .....................12
  Nursing Course Credits (earned) .........................23
  General Education Credits ..............................12

Total Hours required for graduation ..............................................71

Recommended Course Sequence

Third Semester (Summer Term) ..................................18
  COM 11103 Fund of Speech Communication ..........3
  ENG 11103 Composition I .................................3
  NUR 13606 *Nursing Sciences Transition .............6
  NUR 14606 *Nursing Theory Transition ...............6

Fourth Semester .............................................17
  ENG 11203 Composition II ................................3
  NUR 21404 Nursing IV .......................................4
  NUR 21707 Nursing V .......................................7
  SOC 11103 Introduction to Sociology ................3

Fifth Semester ............................................12
  NUR 22101 Trends II ........................................1
  NUR 22111 Nursing VI ......................................11

*Note: If a student has transfer credit from another accredited college/university for any of the following courses that would otherwise be listed on the label as proficiency credits only, then the “K” transfer credit and the grade will be used instead on the student’s Rio transcript.

** BIO 10104, BIO 10204, PSY 11103

NOTE: If a student has earned sufficient college credit in both Human Anatomy/Physiology and Microbiology courses, then NUR 13606 may possibly be waived.

Recommended Course Sequence - On-Line Advanced Placement Track for Licensed Practical Nurses

First Semester (Fall) .............................................0
  CS 288N0 ST: Nursing Orientation Workshop .........0

Second Semester (Spring) ..................................12
  NUR 13606 *Nursing Sciences Transition .............6
  NUR 14606 *Nursing Theory Transition ...............6

Third Semester (Summer) ....................................4
  NUR 21404 Nursing IV .......................................4

Fourth Semester (Fall) ........................................7
  NUR 21707 Nursing V .......................................7

Fifth Semester (Spring) ......................................6
  NUR 28806 ST: Medical/Surgical Nursing I ..........6

Sixth Semester (Summer) .....................................6
  NUR 22101 Trends II ........................................1
  NUR 28805 ST: Medical/Surgical Nursing II ........5

*Note: If a student has transfer credit from another accredited college/university for any of the following courses that would otherwise be listed on the label as proficiency credits only, then the “K” transfer credit and the grade will be used instead on the student’s Rio transcript.

** BIO 10104, BIO 10204, PSY 11103

NOTE: If a student has earned sufficient college credit in both Human Anatomy/Physiology and Microbiology courses, then NUR 13606 may possibly be waived.

***The required general education courses: English Composition I and II, Introduction to Sociology and Speech must be taken with these courses to meet graduation requirements.

Bachelor of Science in Nursing – RN-BSN(7141)

Length of Program

A student may enroll in the RN-BSN Program on a full-time or part-time basis. The required nursing courses may be completed within four semesters. General Education courses are required in addition to the required nursing courses. Enrollment in the University or Community College courses neither implies nor guarantees a student’s eventual acceptance into the Nursing Program.

NOTE: A grade of “C” or better in theory is required for all nursing courses and a “satisfactory” designation for the clinical experience in nursing courses where this is a requirement.
Admissions Procedures and Requirements of the RN-BSN Program

1) Complete the required admission procedures and policies for the University of Rio Grande as follows:
   a) New Students:
      (1) New students to the University of Rio Grande must submit:
           - A complete Application Form for admission and the $25.00 application fee (contact the Admissions Office for the Application Form).
      (a) A complete University Medical Record Form (general form required of all students).
      (b) Official transcripts from all schools of nursing, colleges, or universities attended (a high school transcript is not required for RN-BSN applicants).
      (c) Identify “BSN Program” as the intended major field of study on the University Application Form.
   b) Re-admission Students:
      All re-admission students wishing to re-enroll at the University of Rio Grande (after an absence of one or more academic terms, excluding Summer Sessions) need to contact the Admissions Office and will be required to complete an Application Form for Re-admission and identify “BSN Program” as the intended major field of study on the University Re-admission Form. (This also applies to all Associate Degree Nursing Program graduates from the University of Rio Grande and Rio Grande Community College.)

2) Complete the required admission procedures and policies for the Holzer School of Nursing Program as follows:
   a) Submit evidence of graduation from a State Board of Nursing approved pre-licensure R.N. associate degree or diploma program in nursing (official transcript).
   b) Interview with School of Nursing Faculty Member and/or Director of the School of Nursing.
   c) Present evidence of original, current, and valid State of Ohio R.N. License (during interview). Student must be licensed in order to register for NUR 30808 and all subsequent courses.
   d) Present evidence of current nursing professional liability insurance coverage (during interview).
   e) Present evidence of original, current, and valid CPR certification card (during interview).
   f) Provide evidence of completion of all course transfer prerequisites for admission to the RN-BSN Program (official transcripts).
   g) Submit completed Confidential Medical History Form to the University Health Services Office (a Form will be mailed to the student separately by the University Health Services Office once the student has been officially accepted into the Nursing Program).

Licensure, liability insurance, CPR certification, and immunizations must remain current throughout enrollment in the Nursing Program.

RN-BSN Degree Requirements
Required Course Prerequisite (Transfer) Credits of the University of Hours

Rio Grande-Holzer School of Nursing Associate Degree Nursing Program

General Education (see page 28) must include:
- HPE 10101 Wellness.................................1
- BIO 44303 Human Physiology..................10
- HPE 10101 Wellness................................1
- MTH 21404 Intro Probability & Statistics........4
- Select one of the following two courses:
  - HIS 13103 World Civilization I
  - HIS 13203 World Civilization II.................3
- Select one of the following three courses:
  - ART 10303 Art Appreciation
  - MUS 10403 Music Appreciation..................3
  - Select one of the following three courses:
    - ATH 12103 Anthropology
    - HIS 12203 American History
    - POL 11103 American National Government.......3

Total General Education hours...............................................15

Major Area required courses:
- NUR 30303 Concepts of Prof Nursing.................3
- NUR 30808 Clinical Decision Making................8
- NUR 31303 Healthcare Ethics..........................3
- NUR 31404 Issues in Nursing Practice I..............4
- NUR 40111 Nursing Leadership & Nursing in the Community.................................................11
- NUR 40303 Nursing Research..........................3
- NUR 41303 Issues in Nursing Practice II.............3
- NUR 41404 Trans-cultural Nursing....................4
- BIO 44303 Human Physiology..........................3

Total Major Area hours....................................................42

Upper Level Electives.......................................................3

Total credits from Associate Nursing Program.............71

Total hours required for graduation.................................131

Recommended Course Sequence - Bachelor of Science Degree in Nursing

First Semester...............................................................16
- BIO 44303 Human Physiology..........................10
- HPE 10101 Wellness...........................................3
- NUR 30303 Concepts of Prof Nursing.................3
- NUR 31303 Healthcare Ethics..........................3
- NUR 31404 Issues in Nursing Practice I..............4

Second Semester............................................................17
- MTH 21404 Intro Probability & Statistics...........4
- NUR 30808 Clinical Decision Making................8
- NUR 31404 Issues in Nursing Practice I..............4

Third Semester..............................................................17
- ART 10303 Art Appreciation............................3
- HIS 12203 American History............................3
- HPE One activity course.................................1
- NUR 40303 Nursing Research............................3
- NUR 41404 Trans-cultural Nursing....................4
- One - Three hour Upper Level Elective..................3

Fourth Semester............................................................17
- HIS 13203 World Civilization II.......................3
- NUR 40111 Nursing Leadership & Nursing in the Community.................................................11
- NUR 41303 Issues in Nursing Practice II.............3

Total credits from Associate Nursing Program.............71

Total hours required for graduation.................................131
Mission Statement

The primary mission of the Office Technology program is to provide a quality education in an optimum learning environment for students interested in becoming office professionals. Courses taught in the program are designed to provide the students with the skills necessary to become a successful office professional. Students who graduate with a degree in Office Technology may find this training to be a stepping stone toward a management position or other related fields such as teaching, office and administrative support staff, supervisor, paralegal, medical assistant, office manager, human resource staff, and labor relations manager.

The Office Technology program is designed for individuals interested in pursuing an interesting, exciting career as an office professional. The introduction of the computer and other technology has helped change and broaden the job description and duties of the office professional of today. Today’s office professional assumes a much more active role in performing day-to-day activities in the office.

Degrees/Certificates Offered

Associate of Applied Business – Office Technology (3 options):
Administrative Office Assistant,
Legal Office Assistant, or
Medical Office Assistant
Certificate – Medical Transcriptionist
Certificate – Word Processing

Learning Outcomes

The successful student will:

• Type and proofread common office documents quickly and efficiently.
• Explain the importance of good customer relations.
• Explain the significance and possible legal consequences of workplace confidentiality.
• Demonstrate the importance of developing a work ethic by being punctual daily, working hard and completing assignments on time, cooperating with professors and other students, and taking initiative when warranted.
• Perform common office tasks using Microsoft Word and Microsoft Excel.

Additional Learning Outcomes for Medical Office Assistant:
• Correctly explain common and relevant medical terms.
• Explain HIPAA guidelines relating to patient privacy and the need to follow them.

Degree Requirements

Graduation requires students in all two-year degree and one-year certificate options to achieve a grade of C- or higher in all Office Technology (OT), AHC, and PHT courses in the Medical Office Assistant degree program and one-year Medical Transcriptionist certificate program; a grade of C- or higher in all OT and IT courses in Administrative and Legal Office Assistant programs and Word Processing certificate; and a 2.00 overall GPA in all coursework.

Associate of Applied Business - Office Technology (9227)

The Office Technology program consists of the following three options: Administrative Office Assistant, Legal Office Assistant, and Medical Office Assistant.

Administrative Office Assistant option:

General Education Required Courses (see page 28) must include:
COM 11103 Fundamentals of Speech ........................................3
ENG 11103 Composition I* ................................................3
ENG 11203 Composition II ..................................................3
ENG 21403 Business/Technical Writing ................................3
HPE 10101 Wellness ........................................................1
LA 10101 Freshman Success ...........................................14
Total General Education hours ..............................................14

Related required courses:
ACC 10503 General Accounting Fundamentals ..................3
IT 10103 Intro to Information Technology ........................3
IT 10203 MS Office & Internet I .........................................3
IT 20403 Web Development .............................................3
BM/IT Elective ................................................................3
Total related required hours ................................................15

Major Area required courses:
OT 10403 Keyboarding I* ..................................................3
OT 11303 Shorthand II .........................................................3
OT 11403 Keyboarding II – Executive .................................3
OT 21303 Shorthand III .........................................................3
OT 23202 Office Machines ..................................................2
OT 24202 Records/Database Management ........................2
OT 27103 Executive Machine Transcription .......................3
OT 28202 Office Practicum ..................................................2
OT 28303 Word Processing Applications I .......................3
OT 28403 Word Processing Applications II .....................3
TEC 23303 Office Procedures & Customer Relations ........3
Total Major Area hours ........................................................33

Total required hours for degree ..............................................62

Legal Office Assistant option:

General Education required courses:
COM 11103 Fundamentals of Speech ..................................3
ENG 11103 Composition I* ................................................3
ENG 11203 Composition II ..................................................3
ENG 21403 Business/Technical Writing ..............................3
HPE 10101 Wellness ........................................................1
LA 10101 Freshman Success ...........................................14
Total General Education hours ..............................................14

Related courses required:
ACC 10503 General Accounting Fundamentals ..................3
BM 20403 Principles of Management ................................3
BM 27403 Intro to Business Law .......................................3
IT 10103 Intro to Information Technology .........................3
Major Area Courses required courses:
- OT 10303 Shorthand I.........................3
- OT 10403 Keyboarding I*..................3
- OT 11303 Shorthand II .......................3
- OT 11503 Keyboarding II – Legal..........3
- OT 21303 Shorthand III .....................3
- OT 23202 Office Machines..................3
- OT 24202 Records/Database Management..2
- OT 27203 Legal Machine Transcription..3
- OT 28202 Office Practicum...............2
- OT 28303 Word Processing Applications I..3
- OT 28403 Word Processing Applications II.3
- TEC 23303 Office Procedures & Customer Relations...3

Total Major Area required hours ...........................................33

Total required hours for degree ...........................................65

Medical Office Assistant option:

General Education required courses:
- COM 11103 Fundamentals of Speech ........3
- ENG 11103 Composition I** .................3
- Select one of the following two courses
  - ENG 11203 Composition II .................3
  - ENG 21403 Business/Technical Writing ....3
- LA 10101 Freshman Success ................1
- PHR 21403 Medical Ethics ..................3
- AHC 10202 Standards of Patient Care ....2

Total General Education hours ...........................................15

Related Courses required courses:
- ACC 10503 General Accounting Fundamentals ...3
- AHC 13302 Medical Terminology I ...........2
- AHC 14302 Medical Terminology II ..........2
- AHC 20103 Med Billing & Basic Coding ....3
- PHT 11103 Pharmacology for HRC I .........3
- PHT 11203 Pharmacology for HRC II .......3
- PHT 12103 Applied Science for HRC I .......3
- PHT 12203 Applied Science for HRC II .....3

Total related required hours ...........................................22

Major Area Courses required courses:
- OT 10303 Shorthand I .........................3
- OT 10403 Keyboarding I* ....................3
- OT 11303 Shorthand II .......................3
- OT 11603 Keyboarding II – Medical .......3
- OT 21303 Shorthand III ......................3
- OT 23202 Office Machines ..................2
- OT 24202 Records/Database Management ..2
- OT 27303 Medical Machine Transcription ..3
- OT 28202 Office Practicum ..................2
- OT 28303 Word Processing Applications I ..3
- OT 28403 Word Processing Applications II .3
- TEC 23303 Office Procedures & Customer Relations ...3

Total Major Area required hours ...........................................33

Total required hours for degree ...........................................70

Certificate Requirements

There are two certificate options under Office Technology. These are 1 + 1 certificates as they may be used to complete a two-year degree option in Office Technology.

Certificate – Medical Transcriptionist (9205)

Medical transcriptionists listen to dictated recordings made by physicians and other healthcare professionals and transcribe them into medical reports, correspondence, and other administrative material. Employers prefer to hire transcriptionists who have completed postsecondary training in medical transcription.

- AHC 13302 Medical Terminology I ...........2
- AHC 14302 Medical Terminology II ..........2
- LA 10101 Freshman Success ................1
- OT 10403 Keyboarding I* ....................3
- OT 11603 Keyboarding II – Medical ........3
- OT 27303 Medical Machine Transcription ..3
- OT 28403 Word Processing II .................3
- OT 28803 Advanced Medical Machine Transcription...3
- PHT 11103 Pharmacology for HRC I .......3
- PHT 11204 Pharmacology for HRC II ......4
- PHT 12103 Applied Science for HRC I .......3
- PHT 12203 Applied Science for HRC II .......3

Total required hours for certificate ........................................33

*Prerequisite for this course is OT 10003 Beginning Keyboarding; or students need to be able, using proper keyboarding techniques, to type at least 40 wpm (for 3-5 minutes) with no more than 5 errors before they are permitted to take this course.

** Placement determined by testing.

To view and/or print a copy of the Medical Transcriptionist Fact Sheet, which includes a suggested course sequence, visit the School of Allied Health website at www.rio.edu.

Certificate – Word Processing (9201)

Word processors and typists set up and prepare reports, letters, mailing labels, and other text material. Some may work with highly technical material, plan and key complicated statistical tables, combine and rearrange materials from different sources, or prepare master copies. Spelling, punctuation, and grammatical skills are important, as is familiarity with standard office equipment and procedures. Students may acquire skills in keyboarding and in the use of word processing, spreadsheet, and database management software.

- ACC 10503 General Accounting Fundamentals ...3
- IT 10103 Intro to Information Technology ...3
- IT 20403 Web Development ..................3
- LA 10101 Freshman Success ................1
- ENG 11103 Composition I** .................3
- OT 10403 Keyboarding I* ....................3
- OT 11403 Keyboarding II – Executive ......3
- OT 27103 Executive Machine Transcription ..3
- OT 28303 Word Processing I ................3
- OT 28403 Word Processing II .................3
- OT 24202 Records/Database Management ..2
- TEC 23303 Office Procedures & Customer Relations ...3

Total required hours for certificate ........................................33

*Prerequisite for this course is OT 10003 Beginning Keyboarding; or students need to be able, using proper keyboarding techniques, to type at least 40 wpm (for 3-5 minutes) with no more than 5 errors before they are permitted to take this course.

** Placement determined by testing.

To view and/or print a copy of the Word Processing Certificate Fact Sheet, which includes a suggested course sequence, visit the School of Allied Health website at www.rio.edu.
Mission Statement

The Pharmacy Technician Program’s mission is to educate students to fill an ever-increasing need for Nationally Certified Pharmacy Technicians. We strive to offer students, traditional and nontraditional, training in a timely manner (two semesters) that will enable the student to achieve the skills and certification necessary to be employed as a health care professional. Our goal is to prepare the students to pass the National Pharmacy Technician Certification Examination and gain employment in facilities such as retail and hospital pharmacies, mail-order pharmacies, home infusion businesses, and other related healthcare practices. In addition, our aim is to improve the overall quality of pharmaceutical care in the region.

A pharmacy technician assists a pharmacist in the preparation of prescription medications. Duties include entering patient and prescription data into the computer, choosing the correct drug from the shelf, counting tablets or capsules, or measuring and reconstituting liquid preparations, labeling, pricing, preparation of IV Admixtures, filling robotic prescription dispensers, etc. Communicating with other health professionals and patients is a key component of their work. Most pharmacy technicians work in community retail pharmacies, but the demand is growing in hospital pharmacies, home infusion businesses, and nursing homes. A pharmacy technician performs all the duties of a pharmacist with the exception of counseling patients and taking prescriptions from physicians over the telephone. All work is done under the direct supervision of a registered pharmacist, and all activities are checked by a registered pharmacist.

Certificate Offered

Pharmacy Technician Certificate

Learning Outcomes

The successful student will be able to:

• apply mathematical skills necessary to the practice of a Pharmacy Technician.

• learn approximately 350 brand and generic drug names that are most frequently prescribed and important information about each of these drugs such as contraindications, drug interactions, warnings and precautions, side effects, etc.

• enter data pertaining to the patient’s prescriptions and medical history into the computer

• use the knowledge obtained in class to catch errors made by others in the clinical setting

• communicate with patients and other healthcare providers included in the patient’s care

• count and pour prescription medications and reconstitute appropriate prescription medications

• type the label and add the appropriate auxiliary labels to prescription medications.

• complete insurance claim forms and learn the skills needed to perform this duty with a computer

• prepare IV admixtures using appropriate aseptic technique when working in hospital pharmacies

• stock and take inventory

• operate robotic medication dispensing systems

• perform all the duties of a pharmacist except for taking oral prescriptions over the telephone and counseling patients in any manner regarding their medications, but every duty a pharmacy technician performs is absolutely done under the supervision of a Registered Pharmacist, and MUST BE CHECKED BY A REGISTERED PHARMACIST.

Admission Requirements and Procedures

All students who are accepted into the University of Rio Grande may register for the Pharmacy Technician Program as long as the student places above Math 10403 on the COMPASS test administered by the university and is not required to take developmental courses in English or Reading. The Pharmacy Technician I class (PHT 10103) requires permission by the professor, Camille McNeill. Permission may be gained by making an appointment. Contact Professor McNeill at this e-mail address: cmcneill@rio.edu or contact the School of Allied Health at 740-245-7301.

A minimum ACT score is not required, but anyone with an ACT score of less than 19 or whose GPA is less than a 2.5 will find this curriculum very demanding. It should be noted that the student must have a “C” in every PHT course and an overall “C” average before the student can register for the second semester classes, as well as PROFESSOR PERMISSION for PHT 10203 (the clinical rotation sites) even though the grade requirements have been met. Refer to the course descriptions for clarification.

Memorization skills are absolutely essential in learning the brand and generic names of at least 400 of the most prescribed drugs.

The student must pay for a Criminal Background Check and a drug screening test prior to assignment to a clinical site. Also, the student is responsible for the cost of any random drug screening. The student is responsible for the cost of taking the National Pharmacy Technician Certification Examination. Any student who has been found guilty of drug-related crimes or felony convictions of any kind will not be admitted into the Pharmacy Technician I (PHT 10103) class nor be eligible for the Pharmacy Technician Certificate. The student must also pass the National Pharmacy Technician Certification Examination before a certificate is awarded.
The student must pass a medical physical examination and may be required to receive appropriate immunizations.

Certificate Requirements

Pharmacy Technician Certificate (9301)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHC 13302 Medical Terminology I</td>
<td>2</td>
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<tr>
<td>AHC 14302 Medical Terminology II</td>
<td>2</td>
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<tr>
<td>PHT 10103 Pharmacy Technician I</td>
<td>3</td>
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<tr>
<td>PHT 10203 Pharmacy Technician II Clinical</td>
<td>3</td>
</tr>
<tr>
<td>PHT 11103 Pharmacology for HRC I</td>
<td>3</td>
</tr>
<tr>
<td>PHT 11204 Pharmacology for HRC II</td>
<td>4</td>
</tr>
<tr>
<td>PHT 12103 Applied Science for HRC I</td>
<td>3</td>
</tr>
<tr>
<td>PHT 12203 Applied Science for HRC II</td>
<td>3</td>
</tr>
<tr>
<td>PHT 13203 Pharmacy Math Calculations</td>
<td>3</td>
</tr>
<tr>
<td>PHT 14203 Pharmacy Technician II</td>
<td>3</td>
</tr>
<tr>
<td>TEC 10403 Personal Computer Keyboarding</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Major Area hours ........................................... 32

This program requires the student to:

- Pass the National Pharmacy Technician Certification Exam given by Pharmacy Technician Certification Board.
- Complete all courses with a GPA of at least a 2.0 or higher and at least a “C” in all PHT courses.

Additional Information

For further information, individuals interested in the Pharmacy Technician Certificate Program may contact the Office of Admissions; University of Rio Grande/Rio Grande Community College, P.O. Box 500, Rio Grande, Ohio 45674-0500. Students may email the Director of Pharmacy Technology, Camille L. McNeill, R.Ph. at cmneill@rio.edu at any time including the summer or call the Secretary of the School of Engineering Technologies and School of Allied Health at 740-245-7301 to leave a message for Professor McNeill.

Applicants may also contact the University by telephone (740) 245-5353 or 1-800-282-7201 (Toll Free in OH, WV, and KY), or by fax (740) 245-7260.

To view and/or print a copy of the Pharmacy Tech fact sheet, which includes a suggested course sequence; visit the School of Allied Health website at www.rio.edu.
Mission Statement

Coursework in philosophy examines our fundamental beliefs concerning knowledge and reality, art and beauty, law and morality, God and religion, justice and society, culture and values, government and economics, logic and critical thinking, literature and interpretation, history and meaning, and science and theory. The minor in philosophy serves to provide individuals with a broader and deeper understanding of philosophy as a discipline and method of inquiry. Generally, coursework in philosophy provides individuals with the general concepts and critical thinking tools that can be useful in other areas of academic study as well as in life.

Degrees Offered

Bachelor of Arts or Science – Minor in Philosophy

Learning Outcomes

1. Students will demonstrate an understanding of the basic issues, concepts, and standard arguments pertaining to the various subject areas of philosophy, for example:
   a. ethical (are morals relative or absolute?)
   b. aesthetics (is beauty subjective or objective?)
   c. metaphysics (idealists vs. materialist philosophies)
   d. epistemology (truth of reason vs. truth of fact; empiricism vs. rationalism)
   e. theology (does God exist?)
   f. social philosophy (what is social justice?)
   g. logic (good vs. bad reasoning)
   h. philosophy of mind (is the mind different from the brain?)
   i. philosophy of will (is the will free or determined?)
   j. political philosophy (which system of government is the best system of government?)

2. Students will demonstrate a knowledge and understanding of the philosophical views/theories of major Western philosophers (e.g. Plato, Aristotle, Aquinas, Locke, Marx, Nietzsche, etc.) and classical Eastern philosophers (e.g. Confucius, Lao-Tzu, and Buddha), students also will demonstrate a knowledge and understanding of various schools of philosophy in the history of philosophy (e.g. Neo-Platonism, Stoicism, Scholasticism, Existentialism, etc.) and major ethical theories (e.g. Utilitarianism, Kantianism, Social Contract, Natural Law, etc.

3. Students will demonstrate skill at logical analysis, critical thinking, ethical evaluation, and the application of general philosophical and ethical theories to issues and cases.

Degree Requirements

Bachelor of Arts or Science – Minor in Philosophy (1630)

General Education (see page 28) .................................................. 42

Minor Area required hours

PHR 21103 Philosophical Inquiry ............................................ 3
Select one of the following three courses
   PHR 21203 Ethics
   PHR 21303 Business Ethics
   PHR 21403 Medical Ethics .................................................... 3
PHR 32303 History of Philosophy .......................................... 3
PHR 35203 Philosophy of Science .......................................... 3
Select one of the following three courses
   PHR 32103 Social and Political Philosophy
   PHR 32203 Philosophy and Cultural Studies
   PHR 49903 Directed Studies in Philosophy .................... 3
Total minor area hours .................................................................. 15

Selective Major and Electives ...................................................... 69

Total hours needed to graduate .................................................. 126
Mission Statement

The Physics program is designed to acquaint each student with a general knowledge of Physics and appropriate laboratory methods.

Degrees Offered

Bachelor of Science or Arts – Minor in Physics

Facilities

The Kidd Math/Science opened in 1985. With an award winning masonry design, the center’s front doors open to a glass atrium with live plants & a trickling pond. A spacious lobby follows with comfortable studying facilities. Our center houses three large chemistry labs, three biology labs, one physics lab, one computer lab, lecture rooms, faculty offices and a large bent glass greenhouse that enhances the view of our campus. McKenzie Hall opened in 1997 providing math/science students along with the nursing students’ two large lecture halls, a variety of lecture rooms, an anatomy lab, three computer labs, faculty offices and a conference room with a beautiful view of campus and the surrounding landscape.

Degree Requirements

Bachelor of Science or Arts - Minor in Physics (2630)

General Education (see page 28) must include:

- CHM 10404 Principles of Chemistry .......................... 4
- MTH 15105 Calculus I ........................................... 5
- Total General Education hours ...................................... 42-45

Minor Area required courses:

- MTH 15204 Calculus II ........................................... 4
- PHY 20505 General Physics I with Calculus ................. 5
- PHY 21505 General Physics II with Calculus ................. 5
- PHY Electives from 30000 – 40000 level ...................... 8
- Total minor area hours ............................................. 22

Selected Major and Personal electives .......................... 61 - 64

Total number of hours needed to graduate...................... 126
Mission Statement

Political Science is an academic and research discipline that seeks to describe, analyze, and explain the theory and practice of politics in its broadest sense. Political theory, institutional and structural analysis, individual and group participation, foreign and defense policy, and judicial behavior are included topics covered in the political curriculum.

Degrees Offered

Associate of Arts – Political Science
Bachelor of Art or Science – Minor in Political Science

Learning Outcomes

Students who complete the Minor in Political Science will be able to:

- Differentiate between a democracy and an autocracy. They will be able to define democracy, to determine whether any given political system is a democracy or an autocracy, and to demonstrate what characteristics, structures, and functions indicate that it is a democracy or an autocracy.
- Define constitution and differentiate between a true constitution and a document which is merely a listing of governmental structures. They will be able to distinguish between a constitutional democracy and a basic democracy.
- Compare and contrast the political systems of sovereign states, both democratic and autocratic.
- Have a working knowledge of international relations and of the main schools of thought in international relations and foreign policy. They will understand the principle of sovereignty and the concept of political power.
- Analyze a court case, a legislative act, or an executive decision whether it is the actual decision or a scholarly article discussing the case, the act or the decision

Degree Requirements

Associate of Arts - Concentration in Political Science (3420)

General Education (see page 28) must include:
- POL 11103 American National Government .................3
- POL 12103 American State Government .....................3
- POL 28803 Selected Topics in Political Science ............3
- POL 29903 D.S. in Political Science ........................3
Total General Education hours ...................................... 42
Selected personal electives ............................................ 10 - 13
Total hours needed to graduate ..................................... 64

Bachelor of Sciences or Arts - Minor in Political Science (3430)

General Education (see page 28) must include:
- POL 11103 American National Government .................3
Total General Education hours ...................................... 42 - 45

Minor Area required courses
- POL 12103 American State Government ..................... 3
- POL 31103 The Presidency ......................................... 3
- POL 31203 The American Constitutional System .......... 3
- POL 34103 Legislative Behavior and Process ............... 3
- POL 35103 Comparative Government ......................... 3
- POL 45103 International Relations/Foreign Policy ....... 3
Total minor area hours .................................................. 18

Selected Major and Personal electives ............................. 60 - 63
Total hours needed to graduate ..................................... 126
Mission Statement

The degree will educate students to work in power plant mechanical maintenance support. The main focus of the program is on power plant mechanical systems and welding, but it will also include other industrial environments and their maintenance support technology.

The Power Plant Mechanical Maintenance degree is a two-year Associate of Technical Studies degree that prepares students for entry-level careers in power plant mechanical maintenance support. This program is designed to meet the anticipated need for skilled maintenance support employees and is a result of collaboration/partnership between Rio Grande Community College/University of Rio Grande (RGCC/URG) and American Electric Power’s (AEP) Regional Support Operations (RSO/roving maintenance). The regional support service of AEP provides maintenance support for many of AEP’s power plants located throughout the region.

Coursework in safety, English, mathematics, communications, electricity, welding, industrial mechanics, hydraulics, pneumatics, and preventive maintenance will be conducted on RGCC/URG’s campus and at AEP facilities. An optional 8-week paid summer co-op experience with American Electric Power may be available during the summer between the first and second year of the degree.

AEP will need employees for the regional service maintenance groups, on-site maintenance groups, and shop services central machine shop located in Charleston, WV. In the next five years, it is expected that 40 percent of the present maintenance workforce could retire. The pay for these positions can start out at $23 an hour and can increase up to levels as high as $30 an hour. The regional service maintenance employees travel for much of the year to the power plants in the region and are home for three months of the year.

Degrees Offered

Associate of Technical Studies – Power Plant Mechanical Maintenance

Bachelor of Science in Industrial Technology – (using the Associate of Technical Studies degree as the first two years of the Industrial Technology degree)

Learning Outcomes

The successful student will:

- be familiar with industrial mechanical equipment maintenance procedures, lubrication systems and related machines including lathes, milling machines, grinders, and precision measuring tools.
- be familiar with arc and mig welding procedures as well as oxy/acetylene welding/cutting procedures and equipment.
- be able to perform basic structural welding.
- be familiar with the principles of steam turbines, steam control valves and related mechanical equipment.
- be prepared to take the POSS (Plant Operator Selection System)/MASS (Maintenance Positions Selection System) pre-employment test used by many power generation/industrial employers.

Degree Requirements

Associate of Technical Studies – Power Plant Mechanical Maintenance (94203)

General Education (see page 28) must include:

- COM 11013 Fundamentals of Speech ....................................... 3
- ENG 11103 Composition I ..................................................3
- ENG 21403 Business/Technical Writing ............................ 3
- HPE 24302 First Aid & Safety .............................................2
- IT 10103 Introduction to Information Technology ............. 3
- LA 10101 Freshman Success .............................................1
- PHY 13003 Applied Physics .............................................. 3
- TEC 11704 Technical Math I ............................................. 4
- TEC 11804 Technical Math II ......................................... 4

Total General Education hours ........................................... 26

Major Area required courses

- ELE 10104 Basic Electronics/Electricity............................. 4
- MFG 10103 Basic Welding ............................................ 3
- MFG 11102 Blueprint Reading ......................................... 2
- MFG 12103 Weld Testing/Inspection ..................................3
- MFG 12104 Manufacturing Processes ............................... 4
- MFG 16102 Hydraulics & Pneumatics .................................2
- MFG 22203 Basic Pipe Welding ....................................... 3
- MFG 23103 Advanced Pipe Welding ................................ 3
- MFG 25102 Mechanical Troubleshooting and Repair .......... 2
- MFG 25104 Power Transmission Devices ......................... 4
- MFG 26102 Advanced Hydraulics and Pneumatics ............. 2
- MFG 27102 OSHA .........................................................2
- MFG 25303 Preventive Maintenance ................................ 3
- PPM 20202 Rigging ...................................................... 2
- PPT 29003 Co-Operative (optional) ...................................3

Total Major Area hours ........................................................ 39

Total Required hours for degree ..................................... 65

Students must maintain a cumulative 2.5 GPA throughout the program in order to graduate with an associate degree.

To view and/or print a copy of the Power Plant Operations Fact Sheet, which includes a suggest course sequence, and/or a PPT application form, visit the School of Engineering Technologies website at www.rio.edu.
Mission Statement

Psychology is the scientific study of behavior and cognition. The baccalaureate degree program is intended to provide students with a broad understanding of behavior and mental processes as well as with skills needed to design, analyze, and interpret research. Knowledge gained through the psychology baccalaureate program is useful in a variety of areas such as business or the service sector; it also provides the foundation for further study of psychology at the graduate level. The associate degree program is intended to prepare students for further study of psychology at the undergraduate level. The minor program is intended to familiarize students with a range of topics and skills in psychology.

Degrees Offered

Bachelor of Science – Major in Psychology
Bachelor of Arts or Science – Minor in Psychology
Associate of Arts – Concentration in Psychology

Learning Outcomes

The successful student will:

• Achieve greater awareness of human development and multicultural influences on development
• Understand and discuss at an appropriate level of depth the primary theoretical perspectives in psychology
• Achieve greater awareness of the causes, development, and treatment of abnormal behavior
• Understand, discuss, and use scientific terms and concepts common in psychology research
• Achieve the ability to critically read and evaluate psychological research studies

Degree Requirements

Bachelor of Sciences or Arts – Major in Psychology (3541)

General Education (see page 28) must include:
- BIO 11404 Principles of Biology................................. 4
- ENG 11203 Composition II ........................................ 3
- MTH 21404 Intro to Probability and Statistics............. 4
- PSY 11103 General Psychology .................................. 3

Total General Education hours.................................... 42 – 45

Major Area required courses
- PSY 21103 Human Growth and Development .......... 3
- PSY 22203 Counseling Skills/Theoretical Foundations.. 3
- PSY 24103 Intro to Physiological Psychology ......... 3
- PSY 22803 Cognitive Psychology .............................. 3
- PSY 33203 Social Psychology .................................... 3

Total major area hours............................................. 21

Psychology electives selected from the following courses:
- PSY 31203 Psychology of Adjustment .................... 3
- PSY 37103 Personality Psychology ............................ 3
- PSY 33103 Organizational Psychology .................... 3
- PSY 34103 Young Adolescence to Adulthood ......... 3
- PSY 35103 Psychology Test and Measurements ....... 3
- PSY 38801 Selected Topics ...................................... 1
- PSY 47603 History and Systems of Psychology ........ 3
- PSY 47903 Community Practicum in Psychology** .... 1
- PSY 49901 Directed Studies in Psychology** .......... 1
- PSY 49803 Senior Thesis** .................................... 3

Total Psychology electives (minimum)...................... 15

Selected Minor and personal electives........................ 60 – 63

Total hours needed to graduate................................ 126

Community Practicum may be taken no more than twice for up to 6 credits maximum. Community Practicum requires Junior or Senior standing, sponsorship by a full-time member of the Psychology faculty, and approval by the Dean of the College of Arts and Sciences.

**Psychology baccalaureate degree students planning to go on to graduate school at any level (Master’s or Ph.D.) should strongly consider taking Senior Thesis (PSY 49802) or Directed Studies (PSY 49901) as one of their electives.

Community Practicum in Psychology and Directed Study/Senior Thesis will be offered each fall and spring terms by full-time faculty members only.

Note: all required courses in the Psychology major must be passed with a grade of “C” or better in order to count toward the degree.

Bachelor of Sciences or Arts – Minor in Psychology (3530)

General Education (see page 28) must include:
- PSY 11103 General Psychology ................................ 3

Total General Education hours................................. 42 – 45

Minor Area required courses
- PSY 21103 Human Growth and Development .......... 3
- PSY 22803 Cognitive Psychology .............................. 3
- PSY 33203 Social Psychology .................................... 3

Select a total of six credit hours from the following:
- PSY 35103 Psychological Tests & Measurement
- PSY 37103 Personality
- PSY 38803 Selected Topics in Psychology
- PSY 47103 Abnormal Psychology
PSY 47603 History & Systems of Psychology  
PSY 49902 – 06 Directed Studies in Psychology  
Total of six credit hours ................................................. 6  
Total minor area hours ..................................................... 15

Selected Major and personal elective hours....................... 66 - 69

Total hours needed to graduate ......................................... 126

Associate of Arts – Concentration in Psychology  
(3520)

General Education (see page 28) must include:
  BIO 11404 Principles of Biology ...................................... 4  
  ENG 11203 Composition II ............................................. 3

  PSY 11103 General Psychology ........................................ 3  
  PSY 21103 Human Growth and Development .................. 3  
  PSY 22803 Cognitive Psychology .................................... 3  
  PSY 22203 Counseling Skills/Theoretical Foundations ....... 3  
  PSY 24103 Intro to Physiological Psychology .................. 3

Total General Education hours .......................................... 42

Personal elective hours .................................................... 22

Total hours needed to graduate ......................................... 64

Note: all required courses in the Psychology major must be passed  
with a grade of “C” or better in order to count toward the degree.
Mission Statement

In accordance with the mission of URG/RGCC, the Radiologic Technology program is designed to prepare students to be competent entry-level radiographers as they enter the profession. The program will build a solid foundation from which graduates can evolve with the changing radiologic environment to grow into well-respected professionals.

The Radiologic Technology program curriculum is comprised of courses in biology, sciences, and mathematics to prepare students to enter the workforce as entry-level radiographers (also called radiologic technologists). Upon graduation from the program, the graduates will receive an Associate of Applied Science Degree in Radiologic Technology and will be eligible to apply for the National Certification Examination in Radiology through the American Registry of Radiologic Technologists.

Radiographers are individuals who are specifically trained in delivering ionizing radiation. The radiographer is responsible for administering contrast agents for better imaging, evaluating radiographs, and applying radiation safety standards at all times. Radiographers also provide patient education and support and must possess a high level of “people skills.” Radiographers can be employed by hospitals, clinics, mobile imaging units, urgent care centers, or diagnostic imaging centers.

Degree Offered

Associate of Applied Science – Radiologic Technology

Learning Outcomes

- The Radiologic Technology program will meet the needs for the students and communities at large that they serve.
- Students will demonstrate effective clinical competency.
- Students will demonstrate problem solving and critical thinking skills.
- Students will be effective communicators.
- Graduates will demonstrate professional growth and development.

Accreditation

The Radiologic Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 2850, Chicago IL 60660-3182, 312-704-5300, www.jrcert.org

Facilities

The lecture and lab classes are held in Davis Career Center Room 105.

Admission Requirements and Procedures

Prospective applicants to the Radiologic Technology program (RAD) should begin by applying for general admission/acceptance status to the University of Rio Grande, which can be done by completing an application or by logging onto www.rio.edu and completing the online admissions application. There is no admissions fee for applying online. Identify your “intended major field of study” as Allied Health - Associate Degree (2 year). You must also complete the School of Allied Health’s Radiologic Technology Program (RAD) application, available in the Admissions Office, the School of Engineering Technologies, or online, by February 1 of the year you are seeking fall admission. School of Allied Health’s RAD Application will be accepted from January 1st until February 1 of the year you are seeking fall admission.

It is the student’s responsibility to see that the University has an official copy of his/her high school and/or college transcript(s), and ACT scores. It is also the student’s responsibility to attach official copies of his/her high school transcripts that include scores from 1st grading period of senior year and/or college transcript(s) including transcripts from URG/RGCC and ACT scores to the Radiologic Technology Program application or turn them in to the RAD program director by February 1, when the selection process will begin. No application will be considered without complete documentation.

Further Admission Requirements

- Students must meet all University of Rio Grande/Rio Grande Community College admission requirements.
- Students must be admitted to URG/RGCC by February 1 to be considered for fall program admission.
- Students must submit the RAD Program Application form with official copies of high school transcripts that include scores from 1st grading period of senior year and/or college transcripts and ACT scores by February 1 of the year seeking fall admission to be considered for fall program admission, once all academic requirements have been met. If you have attended college for a minimum of 12 credit hours, you are required to submit your college transcripts. Failure to submit your college transcripts will render your application ineligible. RAD applications are good for one year only. After students are selected for the next academic year, all applications will be discarded. Students not accepted into the program must reapply each year.
- Only students who are officially admitted into the Radiologic Technology program can take the Radiologic Technology courses.

Health Requirements

- Vision Capabilities: Normal or corrected refraction within the range of 20/20 to 20/60, distinguish between color shades.
- Hearing Capabilities: Possess normal or corrected hearing abilities within 0-45 decibel range.
- **Motor Capabilities**: Maneuver large radiographic equipment weighing between 100-150 lbs without assistance. Lift a minimum of 25 lbs. without assistance using proper body mechanics. Assist in lifting patients using proper body mechanics. Stand for extended periods of time. Walk without assistance long distances maneuvering radiographic equipment or transporting patients.
- **Language Capabilities**: Communicate verbally with patient, patient families, coworkers, and other medical personnel.
- **Mental Capabilities**: Think and act quickly to emergency situations. Cope with stress. Comprehend daily work activities.
- **Other**: Pass random drug/alcohol testing. All Allied Health programs are subject to random drug/alcohol testing and require background checks. Students are responsible for all testing and background check fees.

**Academic Requirements**

- High school or college cumulative GPA (GPA) of 2.5 or higher. (High school seniors may apply without attending a year of college first).
- Students with GEDs must successfully complete 24 semester hours of college coursework as a full-time student or successful completion of 24 semester hours in consecutive semesters (excluding summers) with a cumulative GPA of 2.5 or higher. The courses taken must be general courses required in the two-year associate degree RAD program. The college cumulative GPA will be used in place of the high school cumulative GPA for all students who have attended college for a minimum of 12 credit hours.
- ACT composite score of 20 or higher; math and science scores of 20 preferred, but not required. Students out of high school for 5 years or more at time of application deadline can take the ACT test or receive four (4) “life experience” points.
- Completed one unit each of high school biology, algebra, and chemistry or college-level equivalents; all with a minimum grade of “C.” High school or college physics is recommended, but not required. If you have taken more than 1 unit of high school biology, algebra, or chemistry or college level equivalents, the last completed unit score in those subjects must be a minimum grade of “C” or higher.
- Successful completion of AHC 10101 – Introduction to Allied Health Professions (waived for entering high school seniors and transfer students accepted into the program). All current RIO and Post Secondary Option students must have taken or been currently enrolled in the course and receive a minimum grade of “C”.
- Developmental courses (if needed) in English, writing, and math must be completed before admission into the program.
- The student must receive a minimum of a “C” or better in Principles of Human Anatomy & Physiology I & II and/or Standards for Patient Care if enrolled in these courses during Fall, Spring or Summer Semester.

**Admission Procedure**

**Step One:**

To be considered for admission into the Radiologic Technology program, students must have met all of the above requirements and must be admitted to URG/RGCC by February 1. Also, URG/RGCC must have a copy of your high school transcript that include scores for the first grading period of senior year, and/or college transcript(s) including transcripts from URG/RGCC, ACT scores, and the Radiologic Technology program application by this date.

Acceptance into the Radiologic Technology program is very competitive because of the limited spaces available. The number of students admitted each fall will be based upon clinical site availability. Applicants will be objectively scored academically. Cumulative GPA and ACT scores or life experience, prior college experience, GXMO license, and Allied Health Degree or certification points count for 50% of the admission criteria, based on the following point system:

<table>
<thead>
<tr>
<th>College* GPA (Cumulative):</th>
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<td>3.8 = 9</td>
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<table>
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<th>High School GPA (Cumulative):</th>
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<td>2.8 = 3</td>
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<td>2.5 = 2</td>
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*College GPAs will be used for all students with one semester of prior college coursework as a full-time student (12 semester hours) or successful completion of 12 semester hours in consecutive semesters (excluding summers) with a minimum cumulative GPA of 2.5. The courses taken must be general courses required in the two-year associate degree RAD program. This also includes college work completed under the post-secondary option (PSO).

<table>
<thead>
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<th>ACT** (Cumulative):</th>
<th>30 = 10</th>
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<td>29-28 = 9</td>
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<td>27-26 = 8</td>
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<td>25-24 = 7</td>
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<td>23-22 = 6</td>
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<td>21 = 5</td>
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<td>20 = 4</td>
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</table>

**Any applicant who has been out of high school for five (5) years or more at time of application deadline date of February 1 has the option of submitting ACT scores or taking four (4) points for “life experience.”

**Prior College:**

An applicant will be awarded one (1) point for each semester (or quarter) of college successfully completed as a full-time student (at least 12 credit hours) or successful completion of 12 semester hours in consecutive semesters (excluding summers) with a minimum cumulative GPA of 2.5 (maximum of 2 points possible). The courses taken must be general courses required in the two-year associate degree RAD program. This also includes college work completed under the post-secondary option (PSO).

**General X-ray Machine Operator’s License:**

An applicant who has a general x-ray machine operator’s license and has a minimum of one year of full-time work experience as a
GXMO will be awarded one and a half (1.5) points. Application to program must include GXMO license number and signature of employer for verification.

**Allied Health Certification or Degree:**

An applicant who has a certification or degree in an Allied Health area or a minimum of three (3) years full-time work experience in an Allied Health field will be awarded .5 point. Application to the program must include copy of degree and/or certification and signature of employer for verification.

**Meeting all of the above requirements does not mean automatic admission/acceptance into the program nor does it guarantee an interview.**

**Step Two:**

Applicants with the highest scores will be scheduled for an interview, which will count for 50% of the admission criteria. The interview process will consist of a selection committee who will interview and rank these applicants. The selection committee’s decision is based upon the submitted academic achievements and who is most likely to succeed in the program. This is a subjective scoring process.

After the interview process, applicants will be selected for the Radiologic Technology program. Applicants not initially selected for admission will be encouraged to enroll in Allied Health courses designed to prepare them to re-apply for possible enrollment at a later date.

**Step Three:**

Students selected for the Radiologic Technology program must, prior to the beginning of classes:

1. Observe in an Imaging Department for at least six (6) contact hours. Documentation and submission of the approved Observation Validation Form is required. This requirement may be waived at the Program Director’s discretion.
2. Submit a completed Radiography Physical Examination & Medical History Form. Form will be provided.
3. Submit complete childhood immunization and booster records.
4. Submit proof of varicella zoster live-virus vaccine or reliable history of varicella (chicken pox) or serologic evidence of immunity.
5. Submit proof of receiving Hepatitis B vaccine series.
6. Submit a copy of current CPR certification. Students are responsible for CPR certification fee.
7. Maintain a 2.0 cumulative GPA.
8. The student must receive a minimum of a “C” or better in Principles of Human Anatomy & Physiology I & II and/or Standards for Patient Care if enrolled in these courses during Fall, Spring or Summer Semester.

**ADA Statement:** If a student wishes to be identified as having a physical, mental, or learning disability, that may or may not require reasonable accommodation(s), he/she must register with the Office of Accessibility. These registered students should identify themselves to their instructors and provide a written statement from the Accessibility Office that indicates the appropriate accommodations. The process of a student self-proclaiming the need for accommodation should occur as early in the semester as possible. The Office of Accessibility phone is 245-7339 and is located in Rhodes Hall, Room 116, University of Rio Grande.

**Notice of Nondiscriminatory Policy:** It is the policy of the University of Rio Grande and Rio Grande Community College not to discriminate on the basis of gender in the educational programs, activities, or employment policies as required by Title IX of the 1972 Education Amendments. Inquiries regarding compliance with Title IX may be directed to the Affirmative Action Office of the University and the Community College, (740) 245-7228, or to the Director of the Office for Civil Rights, Department of Health, Education, and Welfare, Washington, DC.

Furthermore, the University of Rio Grande and Rio Grande Community College affirm that policies and practices relating to housing, academic, and social life, and employment are applied without regard to race, color, gender, religion, disability, age, marital status, national or ethnic origin, socioeconomic status, or political affiliation. Inquiries in this regard should be directed to the President of the University of Rio Grande and Rio Grande Community College.

**Degree Requirements**

**Associate of Applied Science – Radiologic Technology (93203)**

**First Year - Fall**

- AHC 13302 Medical Terminology I ...................... 2
- BIO 10104 Principles of Human Anatomy & Physiology I ............................................. 4
- LA 10101 Freshman Success ........................................ 1
- RAD 10101 Introduction to Radiologic Sciences ....... 1
- RAD 10202 Radiation Physics .................................. 2
- RAD 11103 Radiographic Positioning & Imaging Procedures I ........................................ 3
- MTH 11403 Intermediate Algebra* ........................ 3
- HPE 10101 Wellness .................................................. 1

Total hours .................................................................. 17

**First Year - Spring**

- BIO 10204 Principles of Human Anatomy & Physiology II .............................................. 4
- ENG 11103 Composition I* ................................. 3
- RAD 11203 Radiographic Positioning & Imaging Procedures II ........................................ 3
- RAD 11303 Imaging & Processing I ...................... 3
- RAD 11402 Standards of Patient Care .................... 2
- RAD 11502 Clinical Education I ............................ 2
- RAD 11602 Computer Tomography ...................... 2

Total hours .................................................................. 19

**First Year - Summer**

- RAD 21204 Clinical Education II ......................... 4
- RAD 10302 Sectional Anatomy ............................. 2

Total hours .................................................................. 6

**Second Year - Fall**

Select one of the following two courses
- ENG 11203 Composition II or
- ENG 21403 Business/Technical Writing ............ 3

Select one of the following two courses
- IT 10103 Introduction to Information Technology or
- CS 10103 PC Applications ................................. 3
RAD 21103 Radiographic Positioning & Imaging III ..........3
RAD 21302 Radiobiology & Radiation Protection ........2
RAD 21402 Imaging & Processing II .........................2
RAD 21503 Clinical Education III ..........................3
RAD 21702 Radiologic Pathology .............................2

Total hours ..................................................................18

Second Year - Spring
Select one of the following two courses
PSY 11103 General Psychology or
SSC 11103 Intro to Social Science ..........................3
COM 11103 Fundamentals of Speech .......................3
RAD 21601 Radiologic Information Technology ........1
RAD 21803 Radiographic Seminar .............................3
RAD 21903 Clinical Education IV .............................3

Total hours ..................................................................13

Total hours need to graduate ....................................73

*Placement determined by COMPASS test.

The clinical education courses will be conducted at a variety of
hospitals, clinics, and diagnostic imaging centers within a 60-
mile radius of the University to provide the student with a better
overall understanding of the diversity of work that occurs in various
radiology departments. Students are responsible for their own
transportation to and from the various clinical education sites. The
Fall and Spring clinical education courses during the school year
will be scheduled for Monday through Friday between the hours of
8:00 a.m. to 5:00 p.m. Summer clinical education hours are Monday
through Thursday 8:00 a.m. to 6:30 p.m. The student will not be
scheduled for more than 40 hours per week, which includes classes
and clinical education rotations.

Radiographic Academic Progression Requirement:

- All RAD courses must be taken in sequential order.
- The student must receive a minimum of a “C” (76%) or
  better in all RAD courses, Principles of Human Anatomy &
  Physiology I & II (or Biology and Anatomy & Physiology) to
  continue in the sequence.
- A minimum cumulative GPA of 2.0 must be maintained
  throughout the program.
- The student must successfully complete all 73 semester hours in
  order to graduate.
- All ARRT competencies must be completed.
- All radiation monitors must be returned or a Declaration of
  Damaged or Lost Personnel Monitoring Device form must be
  submitted.
- The student must receive a background check (BCI) with clear
  results and pass random drug/alcohol test. Students are responsible
  for all testing, background check and certification fees.

Failure to meet any of the above Radiographic academic
requirements will result in the student’s dismissal from the program.
The student may reapply to the program the next calendar year.

Program Officials:

Program Director:
Tracey Boggs, M.Ed., RT (R)(T)
tboggs@rio.edu
740-245-7447

Clinical Coordinator:
Chris Barker, M.S., RT(R)
cbarker@rio.edu
740-245-7319

Additional Information:

For further information, individuals interested in the Radiologic
Technology Program may contact the Office of Admissions;
University of Rio Grande/Rio Grande Community College, P.O.
Box 500, Rio Grande, Ohio 45674-0500.

Applicants may also contact the University by telephone (740) 245-
5353 or 1-800-282-7201 (Toll Free in OH, WV, and KY), or by fax
(740) 245-7260.

To view and/or print a copy of the Radiologic Technology Program
Fact Sheet and/or the Radiologic Technology Program application,
visit the School of Allied Health website at www.rio.edu.

The University of Rio Grande/Rio Grande Community College
reserves the right to change the admission requirements or
policies. All requirements will be periodically updated.
Mission Statement

In accordance with the mission of URG/RGCC, the Respiratory Therapy program is designed to provide an educational program that will prepare students to practice as qualified Respiratory Care Practitioners and to serve the community healthcare agencies by graduating competent and experienced Respiratory Care Practitioners. The program will build a solid foundation from which graduates can evolve with the changing respiratory therapy environment to grow into well-respected healthcare professionals.

A consortium between the University of Rio Grande/Rio Grande Community College and Buckeye Hills Career Center has been established as a means to (a) educate and train individuals in the science of Respiratory Care, (b) to develop in those individuals an understanding of the role of a Respiratory Care Practitioner as an integral part of the healthcare team, and (c) to produce Respiratory Care Practitioners who will serve the community with both competent and technological skills with a caring and ethical behavior.

Respiratory Therapy is a health-care discipline that specializes in the production of optimal cardiopulmonary function and health. Respiratory therapists apply scientific principles to prevent, identify, and treat acute or chronic dysfunction of the cardiopulmonary system. Knowledge of the scientific principles, underlying cardiopulmonary physiology and pathophysiology, as well as biomedical engineering and technology, enable the respiratory therapist to effectively assess, educate, and treat patients.

As a healthcare profession, respiratory therapy is practiced under medical direction across the healthcare continuum. Respiratory therapy is specifically focused on the assessment, treatment, management, control, diagnostic evaluation, education, and care of patients with deficiencies and abnormalities of the cardiopulmonary system, as well as on the prevention of the development of these deficiencies. Critical thinking, patient and environment assessment skills, and evidence-based clinical practice guidelines enable respiratory therapists to develop and implement effective care plans, therapist-driven protocols, disease-based clinical pathways, and disease management programs.

Degree Offered

Associate of Applied Science – Respiratory Therapy

Learning Outcomes

Graduates of the program will be able to:

- Safely and appropriately treat and monitor patients in need of artificial respirators (life support) in the form of mechanical ventilators.
- Perform age-specific care and practice management of the chronically, emergently, and critically ill patients.
- Effectively communicate with patients, physicians, and other members of the healthcare team.
- Identify and explain the foundations of human cardiopulmonary anatomy and physiology.
- Demonstrate expertise in the assessment, analysis, and treatment of the cardio and respiratory systems, select and administer appropriate respiratory therapy treatment modalities.

Accreditation

The Respiratory Therapy Program is accredited by the Committee on Accreditation for Respiratory Care (CoARC), 1248 Harwood Road, Bedford, TX 76021, 1-817-283-2835, http://www.coarc.com/.

Facilities

The lecture and lab classes are held at Building 445 of Buckeye Hills Career Center.

Admission Requirements and Procedures

Program Admittance

Prospective applicants to the Respiratory Therapy program should begin by applying for general admission/acceptance status to the University of Rio Grande, which can be done by completing an application or by logging onto www.rio.edu and completing the online admissions application. There is no admissions fee for applying online. Identify your “intended major field of study” as Allied Health - Associate Degree. You must also complete the School of Allied Health’s Respiratory Therapy Program application, available in the Admissions Office, the School of Allied Health in the Davis Career Center, or online, by March 31 of the year you are seeking fall admission.

It is the student’s responsibility to see that the University has an official copy of his/her high school and/or college transcript(s), ACT scores, and the Respiratory Therapy Program Application by March 31, when the selection process will begin. It is also the student’s responsibility to attach official copies of his/her high school and/or college transcript(s) and ACT scores to the RCP application or turn them in to the Chair of the School of Allied Health by March 31. No application will be considered without complete documentation.
**Admission Requirements**

- Students must meet all University of Rio Grande/Rio Grande Community College admission requirements.
- Students must be admitted to URG/RGCC by March 31 to be considered for fall program admission.
- Students must submit an Allied Health Technology—Respiratory Therapy Program Application form with official copies of high school and/or college transcripts and ACT scores by March 31 to be considered for fall program admission, once all academic requirements have been met. Supplementary applications are good for one year only. After students are selected for the next academic year, all applications will be discarded. Students not accepted into the program must reapply each year.
- The program has competitive admission for limited openings.
- Approval of interview panel selection by the Program Director is required for admission.
- Eight hours of job shadowing of respiratory therapy must be completed prior to the interview in order to be interviewed.
- Only students who are officially admitted into the Respiratory Therapy program can take the RCP courses.

**Academic Requirements**

- High school or college cumulative GPA (GPA) of 2.5 or higher. (High school seniors may apply without attending a year of college first.) Students with GEDs must successfully complete 24 semester hours of college coursework as a full-time student or successful completion of 24 semester hours in consecutive semesters (excluding summers) with a cumulative GPA of 2.5 or higher. The courses taken must be general courses required in the two-year associate degree RCP program.
- ACT composite score of 20 or higher is required; math and science scores of 20 preferred, but not required. Students out of high school for 5 years or more at application deadline can take the ACT test or receive four (4) “life experience” points. High school graduates of less than five years must take the ACT test.
- Completed one unit each of high school biology, algebra, and chemistry or college-level equivalents; all with a minimum grade of “C.”
- Successful completion of AHC 10101 – Intro to Allied Health Professions (waived for entering high school seniors or transfer students accepted into the RCP program).
- Developmental courses (if needed) in English, writing, and math must be completed before admission into the program. This is determined by taking the university’s placement (COMPASS) exam.
- CPR certification must be maintained throughout enrollment in the program.
- Prerequisite courses must be completed before admittance to RCP classes.
- Completion of C-NET test—minimum score of 100 with reading in the 50th percentile or above in order to apply to Respiratory Therapy.

**Health Requirements**

- **Vision Capabilities**: Normal or corrected refraction within the range of 20/20 to 20/60. Distinguish between color shades.
- **Hearing Capabilities**: Possess normal or corrected hearing abilities within 0-45 decibel range.
- **Motor Capabilities**: Maneuver large equipment weighing between 100-150 lbs without assistance. Lift a minimum of 25 lbs. without assistance using proper body mechanics.
- Assist in lifting patients using proper body mechanics. Stand for extended periods of time. Walk without assistance long distances maneuvering equipment or transporting patients.
- **Language Capabilities**: Communicate verbally with patient, patient families, coworkers, and other medical personnel.
- **Mental Capabilities**: Think and act quickly to emergency situations. Cope with stress. Comprehend daily work activities.
- **Other**: Pass random drug testing.

**Degree Requirements**

Associate of Applied Science – Respiratory Therapy (93205)

**General Education (see page 28) required courses:**

- AHC 10101 Intro to Allied Health Professions*..................1
- AHC 10301 Computers in Allied Health Professions..............1
- AHC 13302 Medical Terminology I.................................2
- BIO 10104 Principles of Human Anatomy and Physiology I***.................................................................4
- CHM 10404 Principles of Chemistry**............................4
- COM 11103 Fundamentals of Speech................................3
- ENG 11103 Composition I............................................3
- Select one of the following two courses
  - ENG 11203 Composition II or ENG 21403 Business/Technical Writing..................3
  - LA 10101 Freshman Success....................................1
- Select one of the following two courses
  - PSY 11103 General Psychology or
  - SSC 11103 Introduction to Social Science .....................3
- PHT 14303 Pharmacy Math for RCP.............................3
- AHC 10202 Standards of Patient Care*..........................2

**Total General Education hours..................................30**

**Major Area required courses**

- RCP 10103 Pharmacology.............................................3
- RCP 10204 Respiratory Fundamentals I..........................4
- RCP 10403 Cardiopulmonary Pathophysiology................3
- RCP 10501 Respiratory Practicum I.............................1
- RCP 11204 Respiratory Fundamentals II.........................4
- RCP 11304 Respiratory Fundamentals III........................4
- RCP 11502 Respiratory Practicum II............................2
- RCP 20104 Mechanical Ventilation Management Tech........4
- RCP 20203 Neonatal Pediatric Respiratory Care................3
- RCP 20502 Respiratory Practicum III...........................2
- RCP 21202 RCP Seminar – Board Review.........................2
- RCP 21503 Respiratory Practicum IV............................3
- RCP 21603 Respiratory Practicum V............................3
- RCP 22503 Cardiopulmonary Anatomy and Physiology..........3

**Total Major Area required hours................................41**

**Total required hours for degree..................................68***

*Prerequisite courses for all Allied Health Majors (waived for entering high school seniors and transfer students accepted into the program). Not included in curriculum total.

**Prerequisite of MTH 11403 Intermediate Algebra or equivalent skill level as indicated on placement test.

***Prerequisites of BIO 11404 Principles of Biology, CHM 10404 Principles of Chemistry, or high school biology, chemistry, and algebra with “C” or better.
The clinical education courses will be conducted at a variety of hospitals, clinics, and diagnostic centers. Students are responsible for their own transportation to and from the various clinical education sites. The clinical education courses will be scheduled for day, evening, midnight, and weekend rotations due to the different types of exams and events that occur in the various clinical sites. This will provide the student a better overall understanding of the diversity of the respiratory therapy field.

**Respiratory Therapy Academic Progression Requirement:**

- All RCP courses must be taken in sequential order.
- The student must receive a minimum of a “C” (78%) or better in all RCP courses, PHT 14303 Pharmacy Math for RCP, BIO 10104/BIO 10204 Principles of Human Anatomy & Physiology I and II (or BIO 11404 Principles of Biology and BIO 21404 Human Anatomy & Physiology I), and CHM 10404 Principles of Chemistry to continue in the sequence.
- A minimum cumulative GPA of 2.0 must be maintained throughout the program.
- The student must successfully complete all 71 semester hours in order to graduate (this includes AHC 10101 Intro. to Allied Health Professions and AHC 10202 Standards of Patient Care.

Failure to meet any of the above Respiratory Therapy academic requirements will result in the student’s dismissal from the program. The student may reapply to the program the next calendar year.

**Additional Information:**

For further information, individuals interested in the Respiratory Therapy Program may contact the Office of Admissions, University of Rio Grande/Rio Grande Community College, P.O. Box 500, Rio Grande, Ohio 45674-0500 or Vicki Crabtree, Chair, School of Allied Health, vickiec@rio.edu or (740) 245-7316.

Applicants may also contact the University by telephone (740) 245-5353 or 1-800-282-7201 (Toll Free in OH, WV, and KY), or by fax (740) 245-7260.

The University of Rio Grande/Rio Grande Community College reserves the right to change the admission requirements or policies. All requirements will be periodically updated.

To view and/or print a copy of the Respiratory Therapy Fact Sheet, which includes a suggested course sequence, visit the School of Allied Health website at www.rio.edu.
Mission Statement

The purpose of the social work program is to promote the development of the student as an effective social work practitioner. A generalist approach to social work intervention emphasizes a problem-solving relationship model and reflects a variable client system focus. The primary objective of the social work program is to prepare students for beginning professional social work practice. Recognizing the diversity of societal and geographical environments present in the region, the program strives to promote the professionalization of social services through quality education and community service. The knowledge base of the program focuses on understanding the transaction between the person and society. Appreciating the values of the profession guides the student in developing appropriate attitudes necessary to the helping relationship. Practice skills result from both classroom and field experience. Development of the student’s self-awareness as an individual and as a social person is a prerequisite to developing skills in the use of the self as an agent of change. A programmed schedule, which outlines the sequence of required courses and elective options, is available and should be reviewed with an advisor from the program.

Degrees Offered

Bachelor of Social Work
Associate of Arts – Concentration in Social Services

Learning Outcomes

A student completing the Associate of Arts Concentration in Social Services will be able to:

- Understand the concepts and principles of human behavior in a social environment.
- Identify the system of resources available for social services.
- Apply pre-professional problem-solving skill in a helping relationship.
- Respond to clients in the context of the values and ethics of the social work profession.

The primary goal of the BSW program is to prepare students for beginning professional social work practice. A generalist perspective emphasizes a problem-solving relationship model, reflecting a variable client system focus and includes communities, organizations, small groups, families and individuals.

The successful BSW student will be able to:

- Identify as a professional social worker and conduct oneself accordingly.
- Apply social work ethical principles to guide professional practice.

Accreditation

Completion of the baccalaureate curriculum awards graduates the Bachelor of Social Work (BSW) degree. The baccalaureate degree program is accredited by the Council on Social Work Education. Students interested in the BSW program must complete prerequisites and submit a formal application for admission. Although completion of the Associate Degree in Social Services is not required as a prerequisite for admission to the BSW program, the associate degree curriculum serves as a base of pre-professional education for the BSW degree. Programmed scheduling permits the student to earn two degrees in four years, providing unique opportunities for development as a career professional.

Admission Requirements and Procedures

Admission and Retention

The BSW program maintains selective admission policies and procedures. In addition to general university requirements, candidates for admission are directed to the Program Director for specific details. A minimum “C” grade in all identified coursework, i.e. social work, social and behavioral sciences, liberal arts foundation, is required to progress through the curriculum and for graduation from either the associate degree or baccalaureate program.

Formal admission requirements to the baccalaureate program include:

1. Completion of the Liberal Arts Core Foundation, English and Communication Sequence, and MTH 21404.
2. Completion of the Sophomore-level Field Experience (SWK 28902).
3. A cumulative GPA of 2.50 in foundation and social science coursework, and an overall GPA of 2.25.
4. Submission of a formal application and interview for admission to the professional social work program.

Retention in the baccalaureate social work program is dependent on the student’s satisfactory progress toward completing the degree requirements. The student is expected to acknowledge and acquire the specific values, standards, and ethics of the social work profession. A process of program probation or suspension will be
pursued when a candidate demonstrates evidence of deficiency in the curriculum. Notification of due process and appeal rights is outlined in the Student Handbook. Other policies detailing program requirements and protocol are found in the Social Work Student Handbook. Formal and informal counseling session, advisor(s) conferences, developmental coursework, and career advising may address educational and professional concerns.

Coursework

All candidates for the Associate of Arts degree and the Bachelor of Social Work degree are required to complete the General Education Program, which provides a foundation in the liberal arts and sciences. This perspective, enriched with concentrations in the social and behavioral sciences, broadens the understanding of the person-environment context of social work practice. Completion of the Liberal Arts core foundation is required when initiating coursework in either the Human Behavior and Social Environment (HBSE) or Social Welfare Policy and Services (SWPS) sequences. The professional curriculum fosters proficiency and competence in eight foundation areas:

- Social Work Values and Ethics
- Social and Cultural Diversity
- Populations-At-Risk and Social and Economic Justice
- Human Behavior and Social Environment
- Social Welfare Policies and Services
- Social Work Practice
- Research
- Field Practicum

Field Instruction

Planning the series of four required terms of practica requires coordination with and the approval of the Field Placement Coordinator. The determination of the field placement site is the responsibility of the Field Placement Coordinator. Application for field placement requires evidence of auto liability insurance and health insurance. A specific health and immunization screening is required. A course fee is assigned to all practica for professional liability insurance. No student with a deficient academic record will be assigned a field placement. Other policies regulating field instruction are detailed in the Field Practicum Manual.

Baccalaureate candidates are required to complete a sequence of three practice experiences (four terms) in approved agency settings. The series includes:

- SWK 28902 Social Work Field Observation and Reporting
- SWK 38903 Social Work Practicum
- SWK 48605/48705 Social Work Field Placement

Planning the series of four required terms of practice requires coordination with and the approval of the Director of Field Placement.

Social Work Licensure (State of Ohio)

Persons using the title of “social worker” or persons performing social work in the State of Ohio must be licensed by the Counselor, Social Worker and Marriage and Family Therapist Board. Candidates for Licensure must have at least a bachelor degree in social work, achieve a passing score on the appropriate ASWB national examination, and submit an application. The Ohio Revised Code requires the Board to make inquiry regarding criminal convictions or previous professional behavior, which may result in misdemeanor charges causing action against a license/certificate. A successful application yields a license to practice social work as a Licensed Social Worker (LSW).

Degree Requirements

Bachelor of Social Work – (3141)

General Education (see page 28) must include:

- BIO 11404 Principles of Biology ................................................. 4
- CS 10103 PC Applications (or competency waiver) ........... 3
- HIS 13203 World Civilization II ............................................... 3
- MTH 21404 Introductory Probability and Statistics ............ 4
- POL 11103 American National Government ..................... 3
- SOC 11103 Introduction to Sociology .................................... 3

Total General Education hours .............................................. 42 - 45

Major Area required courses

- PSY 11103 General Psychology ............................................. 3
- PSY 33203 Social Psychology ............................................... 3
- PSY 47103 Abnormal Psychology ......................................... 3
- SOC 24103 Minority Groups ................................................. 3
- SOC 25103 Social Problems ................................................ 3
- SOC 25403 Marriage and the Family ................................... 3
- SOC 36103 Social Research .................................................. 3
- SOC 42103 Sociological Theory ............................................ 3
- SWK 21103 Intro to Social Work .......................................... 3
- SWK 22103 HBSE I ............................................................... 3
- SWK 23103 Social Welfare ................................................... 3
- SWK 24103 Fund of Generalist Practice............................... 3
- SWK 24203 Interviewing Skills .......................................... 3
- SWK 25101 Group Supervision ........................................... 1
- SWK 28902 SW Field Observation & Reporting ................. 2
- SWK 32103 HBSE II .......................................................... 3
- SWK 34103 Generalist Methods-Microsystems ................ 3
- SWK 34202 Generalist Methods-groupwork ..................... 2
- SWK 34303 Generalist Methods-Macroysystems ............... 3
- SWK 35201 Advanced Group Supervision .......................... 1
- SWK 38903 Social Work Practicum ................................... 3
- SWK 42103 Social Welfare Policy Analysis ......................... 3
- SWK 44103 SW Methods & Process ................................... 3
- SWK 46103 Practice Research ............................................ 3
- SWK 48101 Senior Field Seminar ...................................... 1
- SWK 48605 SW Field Placement A .................................... 5
- SWK 48705 SW Field Placement B .................................... 5

Total major area hours ....................................................... 77

Personal electives ............................................................ 4 - 7

Total hours needed to graduate ......................................... 126

Associate of Arts – Social Services (3120)

An Associate of Arts Degree Program with a Concentration in Social Services may be earned in two years. Admission to the Associate Degree in Social Services pre-professional program is open, and its completion is not required as a prerequisite for admission to the baccalaureate program. Students must demonstrate and maintain satisfactory progress (a minimum “C” grade) in required coursework to graduate. This course of study serves as a base of pre-professional education for the social services. Graduates of the associate degree program are not guaranteed admission to the baccalaureate Social Services program.
Work Program. The curriculum in Social Services is administered by the faculty of the social work program as follows:

General Education (see page 28) must include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 11404 Principles of Biology</td>
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<tr>
<td>CS 10103 PC Applications (or competency waiver)</td>
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<tr>
<td>HIS 13203 World Civilization II</td>
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<td>MTH 21404 Introductory Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>POL 11103 American National Government</td>
<td>3</td>
</tr>
<tr>
<td>SOC 11103 Introduction to Sociology</td>
<td>3</td>
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</table>

Total General Education hours: 42 - 45

Minor Area required courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PSY 11103 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 24103 Minority Groups</td>
<td>3</td>
</tr>
<tr>
<td>SOC 25103 Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOC 25403 Marriage and the Family</td>
<td>3</td>
</tr>
<tr>
<td>SWK 21103 Intro to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SWK 22103 HBSE I</td>
<td>3</td>
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<tr>
<td>SWK 23103 Social Welfare</td>
<td>3</td>
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<tr>
<td>SWK 24103 Fund of Generalist Practice</td>
<td>3</td>
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<tr>
<td>SWK 24203 Interviewing Skills</td>
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</tr>
<tr>
<td>SWK 25101 Group Supervision</td>
<td>1</td>
</tr>
<tr>
<td>SWK 28902 SW Field Observation &amp; Reporting</td>
<td>2</td>
</tr>
</tbody>
</table>

Total minor area hours: 30

Total hours needed to graduate: 72
Mission Statement

Serve the general education program; provide the opportunity for an associate of arts degree with a concentration in sociology; give students the opportunity to minor in sociology; provide courses to meet requirements in other programs; develop the foundation for student to major in sociology; offer courses that are transferable; offer the courses to allow student seeking teaching credentials in sociology and permit sociology to be selected as a concentration within a comprehensive major.

Degrees Offered

Associate of Arts – Sociology
Bachelor of Arts or Science – Minor in Sociology

Learning Outcomes

The successful student will:

- Explain and apply the concept of a sociological perspective to the understanding of society, groups, social structures and human behavior.
- Identify processes and techniques of data collection about human behavior.
- Identify, describe and explain how external social forces influence the individual to create a sociological perspective.
- Distinguish between micro and macro levels of interaction and their effects on the individual in society.
- Predict outcomes of various group behaviors.
- List important institutions in society and their impact.

Degree Requirements

Associate of Arts Degree – Sociology (3620)

General Education (see page 28) must include:
SOC 11103 Introduction to Sociology ......................... 3
Total General Education hours .................................. 42 - 45

Associate degree required courses
SOC 24103 Minority Groups ..................................... 3
SOC 25103 Social Problems ................................... 3
SOC 25403 Marriage and the Family ............................. 3
SOC 27102 Death and Dying .................................. 2
SOC 27203 Intro to Aging ..................................... 3
Total major hours .................................................. 14

Personal electives ................................................. 4 - 7

Total hours needed to graduate ................................. 64

Bachelor of Arts or Science – Minor in Sociology (3630)

General Education (see page 28) must include:
SOC 11103 Introduction to Sociology ......................... 3
MTH 21404 Intro Probability & Statistics .................... 4
Total General Education hours ................................. 42 - 45

Minor Area required courses
SOC 24103 Minority Groups ..................................... 3
SOC 25103 Social Problems ................................... 3
SOC 25403 Marriage and the Family ............................. 3
SOC 36103 Social Research .................................. 3
SOC 37203 Intro to Aging ..................................... 3
SOC 42103 Sociological Theory ................................. 3
Total major area hours .......................................... 18

Selected Major and Personal electives ....................... 63 - 66

Total hours needed to graduate ................................. 126
Mission Statement

The primary mission of the technical studies degrees is to provide a quality education through an individually planned technical program designed to respond to specialized needs of an individual or the community.

Degrees Offered

Associate of Technical Studies
Bachelor of Technical Studies

Associate of Technical Study (code individualized)

As the primary objective of the Associate of Technical Study (ATS) degree is to broaden the educational program alternatives in a community that has very limited industrial base, the proposed educational objectives may be very unique and nontraditional.

The Associate of Technical Study (ATS) degree is open to any student admitted to the University of Rio Grande/Rio Grande Community College if the Chair of the School of Engineering Technologies determines that an existing technology degree program will not meet the student’s educational goals and that those goals are based on a feasible occupational objective.

The proposed program of study must meet the Ohio Board of Regents requirements for content and must be approved by a committee of School of Engineering Technologies faculty members, who advise the student as needed throughout the implementation of the program.

Application for an ATS degree program must be made before 33 semester credit hours of combined transfer and University of Rio Grande/Rio Grande Community College academic coursework have been completed. The remaining courses must include at least half of the specialized/technical courses of the program.

Bachelor of Technical Studies (code individualized)

The Bachelor of Technical Studies (BTS) degree program in URG/RGCC’s School of Engineering Technologies offers a unique opportunity for students who would like to continue their formal education beyond an associate degree in a technical field that does not have a bachelor degree option available. The program builds on the student’s technical concentration from the associate degree by transferring those hours into a bachelor’s program.

The BTS degree program allows any student with an associate degree from an accredited institution to enter the BTS program and graduate by completing 46 credit hours of specified core courses and 24 student selected credit hours (with an advisor’s assistance) of technical electives. The BTS degree is a 2 + 2 degree program. Courses used for securing an associate degree cannot be used again for the BTS degree. All courses, regardless of their course level, are charged at the current private university credit hour rate for the third and fourth years.

The BTS degree program provides the student with knowledge, skills, and dispositions necessary for advancement in his/her chosen careers and integrates the technical skills developed within applied associate degree programs with the professional skills inculcated in a bachelor’s degree program.

A completion degree, the BTS degree is offered through the School of Engineering Technologies and consists of:

- a minimum of forty-six (46) credit hours in core courses.
- a minimum of twenty-four (24) hours of student-selected hours (with assistance from an advisor) that builds upon the technical courses or technical area of the two-year degree.
- a minimum of thirty-three (33) credit hours at the 300/400 level.
- a minimum of 126 total credit hours necessary to graduate with a BTS degree.

Third Year – Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 10503</td>
<td>General Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BM 20403</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>ECO 11403</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MKT 36403</td>
<td>Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>IT 20303</td>
<td>DBMS Concepts</td>
<td>3</td>
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<tr>
<td>Technical electives</td>
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Third Year – Spring

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<tr>
<td>BM 27403</td>
<td>Introduction to Business Law</td>
<td>3</td>
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<tr>
<td>ECO 12403</td>
<td>Introduction to Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 11103</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>COM 22103</td>
<td>Principles of Discussion</td>
<td>3</td>
</tr>
<tr>
<td>ENT 24403</td>
<td>Small Business Management</td>
<td>3</td>
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<tr>
<td>Technical electives</td>
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<tr>
<td>Total hours</td>
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Fourth Year – Fall

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<tr>
<td>BM 44503</td>
<td>Project Management</td>
<td>3</td>
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<tr>
<td>BM 31403</td>
<td>Resource Management</td>
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</tr>
<tr>
<td>MTH 21404</td>
<td>Introductory Probability and Statistics</td>
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<tr>
<td>BM 42403</td>
<td>Organizational Theory</td>
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Fourth Year – Spring

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<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BM 22403</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKT 21403</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BM 46403</td>
<td>Operations Management</td>
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<tr>
<td>Technical electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Total hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Prerequisites: Check out upper level courses for any required prerequisites before registering.

At least 6 three-credit hour elective courses must be at the 300/400 level to meet graduation requirements.

Academic Progression Requirements

- Must have completed an associate degree from an accredited institution.
- Student must work with an advisor in choosing electives that build on the technical area of the associate degree.
- Student must maintain a minimum cumulative GPA of 2.0 throughout the program.
Mission Statement

Provide the fundamental educational background in wildlife and fish conservation and management to be sufficiently knowledgeable to secure employment as a professional with a natural resource-orientated agency, organization, or company or continue on to graduate school.

2+2 Program Design

The Rio 2+2 Wildlife and Fish curriculum provides critical thinking skills, a solid academic background, and specific field and lab skills required for employment by either government or non-government agencies and organizations focused on management, monitoring, and/or research of wildlife and fish resources. Coupled with instilling an attitude of lifelong learning, these skills encourage the flexibility necessary for graduates to advance beyond entry-level positions, and actively engage in management of wildlife and fisheries in the 21st century.

This upper-level program is offered in conjunction with Hocking College (HC) to students who have earned an Associate of Applied Science degree in either Wildlife Management or Wildlife and Fish Sciences. The HC associate degree program provides the student with a largely hands-on, field-oriented curriculum. The Rio bachelor degree curriculum complements the HC experience with coursework that addresses theories, issues, and challenges in the context of both basic science and applied management.

Degrees Offered

Bachelor of Science – Wildlife and Fish Conservation and Management (2343)

Degree Requirements

Associate of Applied Science degree in Wildlife and Fish Management or Wildlife Sciences ........................................ 71

Remaining General Education required hours* ........................................ 15

Additional 100-200 level classes at Hocking to meet standards for Wildlife Certification may be required.

30000-40000 level Required Courses (taught by URG) ............. 34

- NSC 31303 Communication Environ Nat Res Info .......... 3
- BIO 31303 Advanced Ornithology ........................................ 3
- BIO 32202 Ecological Methodology ................................. 2
- BIO 32303 Mammalogy .................................................. 3
- BIO 36303 Local Flora .................................................. 3
- BIO 37103 Principles of Conservation Genetics .............. 3
- BIO 41304 Limnology ................................................... 4
- BIO 42303 Human - Wildlife Conflicts ......................... 3
- BIO 43103 Applied Population Biology .......................... 3
- BIO 45303 Conservation Biology ................................... 3
- BIO 45103 GIS Applications for Resources Management .... 3
- Minimum of 6 hours taking either: ................................. 6

- BIO 48802-03 Selected Topics in Biology ............... 2-4
- BIO 49902-03 Directed Studies in Biology .................. 2-3

Selected Topics may include:

- Advanced Fisheries Management ................................. 3
- Aquatic Entomology .................................................. 2-3
- Biology/Conservation of Amphibians & Reptiles ........ 2
- Biodiversity: Monitoring and Management ................. 3
- Biology/Management of Western Species ................. 3
- Biology/Management of Anadromous Fish ............... 2-3
- Environmental Ethics ................................................. 3
- Invasive Species: Biology, Ecology, and Management .... 3
- Wildlife Diseases ..................................................... 3

Total required hours for degree ........................................... 126

*Students completing a Hocking College AAS Degree in Wildlife and Fish Conservation and Management or Wildlife Sciences will have completed URG General Education Requirements in Communication, Math and Science, and partially completed Health and Social Science requirements. They will need to complete 0 - 2 semester hours of health, 9 semester hours of humanities, and 0 - 4 semester hours of social sciences. Specific course substitutions have been developed for Hocking classes that are equivalent to URG classes.

Note: Students must take HC CHM 131 Environmental Chemistry as one of their physical science classes.
Course Numbers

The course descriptions are listed alphabetically and numerically in order by discipline. The course number provides important information. Numbers at the 10000 or 20000 level indicate the freshman and sophomore level (community college). These courses should normally be completed during the freshman and sophomore years. Numbers 30000 and 40000 indicate junior and senior level (private university). These courses should normally be completed during the last two years of study in the junior and senior years.

The last two numbers indicate the number of credit hours the course carries, ranging from 1 through 10. The average course carries 3 credit hours. As an example, course number 10403 is a freshman level, community college course carrying three credit hours.

NOTE: If (TM) appears after the course number, then that course meets the requirement of the Transfer Module State Policy as presented elsewhere in this Catalog.

(TAG) indicates Transfer Assurance Guide Approved Courses.

For more information about the Transfer Module (TM) or the Transfer Assurance Guide (TAG) courses see the Transfer Module section of the catalog.

For courses that are dual-listed and/or cross-listed at two different levels, additional work/assignments may be required of students taking the course for the higher level credit.

ACC - Accounting

ACC 10503 General Accounting Fundamentals. (3 Credit Hours) An accounting course for non-business/non-accounting students. The course includes the basic financial recording and reporting process, and managerial accounting with a decision-making emphasis. An accounting system for use on the computer will be studied. Not for business majors. Course fee required. Fall

ACC 11403 Principles of Accounting I. (3 Credit Hours) An introduction to the accounting system, from the transaction through the preparation of the balance sheet and income statement. An introduction to basic financial terminology. Includes a study of current assets, long-term assets, liabilities, and owner’s equity for both partnerships and corporations. Course fee required. Fall

ACC 12403 Principles of Accounting II. (3 Credit Hours) Applications of ACC 11403. A study of the uses of accounting information for management decision making. Includes the preparation of the Statement of Cash Flows, department accounting, accounting for a manufacturing concern, job and process costing, budgeting, and cost-volume-profit analysis. Course fee required. Prerequisite: ACC 11403. Spring

ACC 21403 Intermediate Accounting I. (3 Credit Hours) Accounting concepts and principles with emphasis on special problems of asset valuation and income determination in accordance with generally accepted accounting principles. Includes in-depth study of the complexities of revenue recognition, the study of cash, short-term liability, treatment of accounting changes, and receivables. Prerequisite: ACC 12403. Additional work/assignments required for ACC 31403. Course fee required Fall

ACC 22403 Intermediate Accounting II. (3 Credit Hours) Continuation of special accounting problems in accordance with generally accepted accounting principles. Includes in-depth study of intangible assets, bonds, long-term investments, capitalization of corporation, financial statement analysis, pensions, income tax allocation, and leases. Prerequisite: ACC 21403. Additional work/assignments required for ACC 32403. Course fee required Spring

ACC 24403 Federal Income Taxation. (3 Credit Hours) A course intended to provide the student with a working knowledge of federal income tax laws and procedures as applied to the individual and the sole proprietorship. With an introduction to capital gains and losses, tax research, and tax return preparation. Additional work/assignments required for ACC 34403. Prerequisite: ACC 21403. Course fee required Spring

ACC 25403 Management Accounting. (3 Credit Hours) A survey course intended to provide the student with a working knowledge of those accounting problems related to cost determination, planning and control. Includes cost classification, cost-volume-profit analysis, cost accumulation and product costing, budgeting, and standard costs and variances. Additional work/assignments required for ACC 35403. Prerequisites: ACC 12403 and one of the following: MTH 11403 or MTH 22604. Course fee required Fall

ACC 28801-03 Selected Topics in Accounting. (1 to 3 Credit Hours) Selected topics relevant to accounting. On Demand

ACC 34403 Federal Income Taxation. (3 Credit Hours) A course intended to provide the student with a working knowledge of federal income tax laws and procedures as applied to the individual and the sole proprietorship. With an introduction to capital gains and losses, tax research, and tax return preparation. Additional work/assignments required for ACC 34403. Prerequisite: ACC 22403. Course fee required Fall

ACC 35403 Management Accounting. (3 Credit Hours) A survey course intended to provide the student with a working knowledge of those accounting problems related to cost determination, planning and control. Includes cost classification, cost-volume-profit analysis, cost accumulation and product costing, budgeting, and standard costs and variances. Additional work/assignments required for ACC 35403. Fall

ACC 36403 Auditing Principles. (3 Credit Hours) A survey course intended to provide the student with a working knowledge of the auditing profession, professional ethics, legal liability, theory and standards, and techniques with emphasis on evidence gathering, internal control, and statistical sampling. Application of audit techniques to financial statement items. Additional work may be required for ACC 36403. Pre-requisite: ACC 22403. Fall

ACC 37403 Fund Accounting. (3 Credit Hours) Accounting for states and political subdivisions, utilities, and non-profit institutions. Financial statement presentation and differences with profit institutions will be explored. Prerequisite: ACC 12403. On Demand

ACC 38801-03 Selected Topics in Accounting. (1 to 3 Credit Hours) Selected topics relevant to accounting. Prerequisite: ACC 32403. On Demand
ACC 42403 Advanced Accounting. (3 Credit Hours) Accounting for business combinations and consolidation, including equity method and intercompany transactions. Additional topics are foreign currency transactions, hedges, and restatement of foreign financial statements. Problems of partnership liquidations are considered. Prerequisite: ACC 22403. Spring

ACC 43403 Computer Applications in Accounting. (3 Credit Hours) In this professional level course, the student will be working with the most widely used income tax, accounting, processing, network, and spreadsheet software in the accounting profession. Prerequisite: Senior standing. Fall

ACC 44403 Advanced Federal Income Taxation. (3 Credit Hours) In-depth study of tax accounting theory and practice with emphasis on income determination for tax purposes as opposed to financial purposes. Subchapter S corporations, advanced subchapter C corporations, and advanced tax research will also be included in the course. Participation in volunteer tax return preparation will be expected. Prerequisite: ACC 24404/34404. On Demand

ACC 46403 Advanced Cost Accounting. (3 Credit Hours) Special topics in cost accounting theory, including cost allocation, activity-based costing, process costing, systems spoilage, and joint by-products. Cost behavior, relevance, and the decision-making process are considered. Prerequisite: ACC 35403 Spring

ACC 47403 Ethics in Accounting. (3 Credit Hours) This is an advanced study of the AICPA code of Professional Ethics, SEC, and various state ethics laws. The student will make decisions in simulated ethical situations while attempting to balance the various professional standards, regulations, and laws. Prerequisite: Senior standing. Spring

ACC 49102 Internship/Experience in Accounting. (2 Credit Hours) On the job training of at least 100 meaningful hours or 12/13 full working days after approval of the major Professor, Faculty Internship Coordinator, School Chair, and an approved organization, which is expected to give the intern a variety of new and meaningful learning experiences directly related to Business Administration major and the concentration of interest. The intern is expected to grow, work hard, and make a professional contribution to the organization. Fall Spring

ACC 49901-03 Directed Studies in Accounting. (1 to 3 Credit Hours) Individual research and work for advanced students related to major field of study. Prerequisites: Permission of instructor and the Dean of the College of Professional and Applied Studies, and ACC 32403. On Demand

AHC - Allied Health Careers

AHC 10101 Introduction to Allied Health Professions (1 Credit Hours). This is a one-hour credit course designed to introduce students to the allied health profession career choices available on campus. Guest speakers—off campus individuals and/or Rio faculty—will present information needed to make an informed career choice in the allied health field. One hour lecture. Course fee required. Fall Spring

AHC 10202 Standards of Patient Care (2 Credit Hours). This course is designed to provide the general standards of patient care in the clinical practice. The course will address routine and emergency care standards. The course will explain the role the allied health professional plays in patient education. Two hours lecture. Prerequisite: Student with declared major in Allied Health or Medical Office Assistant. (Students accepted into the RAD program will also have to take the patient care course required in the RAD curriculum.) Course fee required. Fall Spring

AHC 10301 Computers and Allied Health Professions (1 Credit Hours). Content of the course includes computer processes, basic computer applications, and the use of computer for clinical applications. Emphasis is placed on gaining practical experience with the use of software. One hour class each week. Prerequisite: Student with declared major in Allied Health. Fall Spring

AHC 10401 Introduction to Nursing Careers I (1 Credit Hour). This course is designed to introduce students to career choices in nursing. Guest speakers, off-campus individuals, and/or Rio faculty will present pertinent information. This course is designed to assist students with the career choice of nursing and career life planning. It will present information needed to help the student make an informed choice regarding the learning process, scheduling, course options, basic academic “survival skills,” and information related to the nursing profession. One hour lecture. Course fee required. Fall Spring

AHC 13302 Medical Terminology I (2 Credit Hours). In this course the students are taught the procedure for analyzing and forming medical terms. This includes the study of prefixes, suffixes, and word roots to describe the anatomical structures and the physiology of the body. Two hours lecture. Course fee required. Fall Spring

AHC 14302 Medical Terminology II (2 Credit Hours). This course is a continuation of AHC 13302 Medical Terminology I. Included in this course is the study of prefixes, suffixes, and word roots as they apply to the anatomical structures and physiology of the different systems of the human body, as well as the diseases, medical processes, and procedures related to these systems. Prerequisite: AHC 13302. Two hours lecture. Course fee required. Fall Spring

AHC 20103 Medical Insurance Billing and Basic Coding (3 Credit Hours) This course offers the student an overview of various types of health insurance, HIPPA’s Privacy Rule, medical coding, and electronic insurance claims processing. Special emphasis is on insurance coding with ICD-9-CM and CPT codes from source documents, the proper completion of the claim form on the computer electronic filing, receiving revenues, and the process to appeal denied claims. This course is designed as a lecture course with a practical component using a textbook and computer software so the student will have actual hands-on experience. Suggested prerequisites: PHT 12103 and PHT 12203, AHC 13302 and 14302. Course fee required. Fall

AHC 25302 Medical Terminology III (2 Credit Hours). This course build upon vocabulary and concepts learned in Medical Terminology I and II. Emphasis is placed on vocabulary relating to the anatomical structures and the physiology of the integumentary system; blood lymph, and immune systems; musculoskeletal system; female reproductive system; endocrine system; nervous system; and special senses/eyes and ears as well as the diseases, medical processes, and procedures related to these systems. Prerequisite required: AHC 13302; suggested AHC 14302 or permission of instructor. Two hours per week. On Demand.

AHC 28801-03 Selected Topics in Allied Health Professions. (1 to 3 Credit Hours) This course is designed to be a study of topics not included in regular allied health course offerings. The format of this course may be independent, directed study or a scheduled class. Prerequisite: Permission of the instructor. Course fee may be required. On Demand
AHC 29901-03 Directed Studies in Allied Health Careers. (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in any of the allied health areas. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing, the completion of at least one semester of courses in an allied health area, and permission of the instructor and the program director. Course fee may be required. On Demand

AHC 49901-03 Directed Studies in Allied Health Careers. (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in any of the allied health areas. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Junior or senior standing, the completion of at least a two-year degree in an allied health area, permission of the instructor and program director. Course fee may be required. On Demand

ART - Art

ART 10303 (TM) Art Appreciation (3 Credit Hours) A survey course examining the role of the visual arts from a number of cultural perspectives, or "functions of art". This course will also study the structure and design components of art, as well as the various media and techniques used to create it. Throughout the semester, we will survey a selection of art objects, taking into account the cultural, historical, political, religious, and social forces that influence artistic production. This course is intended for non-majors. Art majors will cover these topics in other courses. Course fee required. Prerequisites: None Fall Spring

ART 10403 Two-Dimensional Design (3 Credit Hours) An introduction to the elements and fundamental principles of design and composition in the visual arts. For students in the licensure program – instructional objectives, teaching strategies, and evaluation techniques will enable them to transfer subject content to the classroom. Course fee required. Prerequisites: None Fall

ART 10503 Three-Dimensional Design (3 Credit Hours) The application of design elements and principles towards the understanding and creation of three-dimensional objects in visual art. Course fee required. Prerequisites: None. ART 10403 recommended Spring

ART 23201 Exhibits (1 Credit Hour) An introduction to the basic skills of installing art exhibits, preparing publicity materials, and other tasks associated with running an art gallery. Prerequisites: None Spring

ART 23504 Ceramics I (4 Credit Hours) An introduction to the materials and techniques of sculpture. Students will work in a variety of media, and learn the proper and safe use of shop tools and equipment. Course fee required. Prerequisites: None Fall

ART 23604 Drawing I (3 Credit Hours) An introduction to the technical and expressive aspects of drawing. Course fee required. Prerequisites: None. Fall

ART 25404 Western Art History II (4 Credit Hours) A survey of the major developments in painting, sculpture, architecture, and peripheral arts of the Western world from prehistoric times to the Gothic era. Prerequisites: None. Fall

ART 26604 Darkroom Photography I (4 Credit Hours) An introduction to black and white film photography as a tool of individual expression. The student will develop and print their photographs in the darkroom and produce an individual portfolio. Course fee required. Prerequisites: None Fall

ART 27004 Raster Graphics (4 Credit Hours) An introduction to creating and manipulating pixel based graphics using Adobe Photoshop. Students will use original and appropriated imagery to create original graphics. Basic principles of art and design will be emphasized. Course fee required. Prerequisites: None Fall

ART 28604 Painting I (4 Credit Hours) An introduction to black and white film photography as a tool of individual expression. The student will develop and print their photographs in the darkroom and produce an individual portfolio. Course fee required. Prerequisites: None Fall

ART 29904 Digital Photography (4 Credit Hours) An introduction to the technical, artistic, and conceptual principles of digital photography. Course fee required. Prerequisites: None. Spring

ART 30104 Raster Graphics (4 Credit Hours) An introduction to creating and manipulating pixel based graphics using Adobe Photoshop. Students will use original and appropriated imagery to create original graphics. Basic principles of art and design will be emphasized. Course fee required. Prerequisites: None Fall

ART 33201 Exhibits (1 Credit Hour) An introduction to the basic skills of installing art exhibits, preparing publicity materials, and other tasks associated with running an art gallery. Prerequisites: None Spring

ART 33504 Ceramics I (4 Credit Hours) An introduction to the materials and techniques of sculpture. Students will work in a variety of media, and learn the proper and safe use of shop tools and equipment. Course fee required. Prerequisites: None Fall

ART 33604 Drawing I (3 Credit Hours) An introduction to the technical and expressive aspects of drawing. Course fee required. Prerequisites: None. Fall

ART 35404 Western Art History II (4 Credit Hours) A survey of the major developments in painting, sculpture, architecture, and peripheral arts of the Western world from the Renaissance era to the late twentieth century. Prerequisites: None. ART 15404 recommended Spring

ART 36604 Darkroom Photography I (4 Credit Hours) An introduction to black and white film photography as a tool of individual expression. The student will develop and print their photographs in the darkroom and produce an individual portfolio. Course fee required. Prerequisites: None Fall

ART 37004 Raster Graphics (4 Credit Hours) An introduction to creating and manipulating pixel based graphics using Adobe Photoshop. Students will use original and appropriated imagery to create original graphics. Basic principles of art and design will be emphasized. Course fee required. Prerequisites: None Fall

ART 38604 Painting I (4 Credit Hours) An introduction to black and white film photography as a tool of individual expression. The student will develop and print their photographs in the darkroom and produce an individual portfolio. Course fee required. Prerequisites: None Fall
ART 28801-04 Selected Topics in Art (1-4 Credit Hours) This course is designed to offer students flexible subjects and topics as requests, need, and/or enrollment arises. Specific course syllabi will vary with each course offering. Course fee required. Prerequisite: Permission of the instructor. On Demand

ART 30104 Junior Design Studio I (4 Credit Hours) Students will work independently or in small groups to create original graphics in a classroom lab setting. Regular critiques and discussions will help the student form their own design sensibilities. Lectures and demonstrations will expand the student’s knowledge of design software, typography, printing and reproduction techniques. Prerequisites: ART 20204, ART 20304, or permission of instructor. Fall

ART 30204 Junior Design Studio II (4 Credit Hours) A continuation of Junior Design Studio I. Students will build on the knowledge learned in previous classes to refine their design sensibilities and make more professional and ambitious work. Lectures and demonstrations will expand the student’s knowledge of design software, especially as it relates to interactive web graphics. Prerequisite: ART 30104 Junior Design Studio I or permission of instructor. Spring

ART 31504 Printmaking II (4 Credit Hours) A continuation of Printmaking I. Students will pursue independent study in a variety of print media, focusing primarily on photo-mechanical processes. Prerequisites: ART 21504 or permission of instructor. Spring

ART 33504 Ceramics II (4 Credit Hours) A continuation of Ceramics I. Skills in the techniques of working with clay, glaze, and firing processes will be developed. Students will work towards their own aesthetic with the instructor’s guidance and help. Prerequisite: ART 23504 or permission of instructor. Fall

ART 34504 Sculpture II (4 Credit Hours) A continuation of Sculpture I, focusing on an expanded variety of materials and techniques, and a refinement of the students’ technical, conceptual and aesthetic skills. Students will have more freedom in project choice, and more responsibility for research and production of finished works. Prerequisite: ART 24504 or permission of instructor. Spring

ART 36503 Non-Western Art History (3 Credit Hours) Survey of non-western art traditions from Asia, the Americas, Africa, and the Pacific region from ancient times to present. Prerequisites: None Spring

ART 36604 Darkroom Photography II (4 Credit Hours) A continuation of Darkroom Photography I, with added emphasis upon introducing a wider variety of photographic films, papers, and developers. Students will be expected to produce a portfolio that reflects a personal style and attitude towards image and content. Prerequisite: ART 26604 or permission of instructor. Fall

ART 38504 Drawing II (4 Credit Hours) A continuation of ART 12403 Drawing I. Students explore a variety of media, subject matter and approaches, and the course assignments may include any or all of the following: Color Drawing Media, Watercolor, Mixed Media, Figure Drawing, Collage and experimental drawing techniques. Prerequisites: ART 12403 or permission of instructor. Spring

ART 38604 Painting II (4 Credit Hours) A continuation of Painting I. There will be an emphasis upon the development of a portfolio of work that reflects a more personal approach to composition, content, and technique. Prerequisite: ART 28604 or permission of instructor. Spring

ART 40104 Senior Design Studio I (4 Credit Hours) Students will provide professional design services to the university and the community. Projects will be selected by the instructor and students, and the faculty will supervise the design, production and delivery of completed work to the client. Students will refine and develop their professional portfolio and continue designing promotional material related to their career. Prerequisites: ART 30204 or permission of instructor. Fall

ART 40204 Senior Design Studio II (4 Credit Hours) A continuation of ART 40104 Senior Design Studio I. Students will continue to provide professional design services to the university and the community. Students will complete the assembly of their professional portfolio and promotional material. Prerequisites: ART 40104 or permission of instructor. Spring

ART 41504 Printmaking III (4 Credit Hours) A continuation of Printmaking II. Students will continue the development of their technical, aesthetic, and conceptual skills as they take on more challenging projects, new materials, and work more independently. Prerequisites: ART 31504 or permission of instructor. Spring

ART 43504 Ceramics III (4 Credit Hours) A continuation of Ceramics II. Skills in the techniques of working with clay, glaze, and firing processes will be developed. Students will continue to define and explore a personal aesthetic and begin to work more independently. Prerequisites: ART 33504 or permission of instructor. Fall

ART 44504 Sculpture III (4 Credit Hours) A continuation of Sculpture II. Students will continue the development of their technical, aesthetic and conceptual skills, as they take on more challenging projects, new materials, and work more independently. Prerequisites: ART 34504 or permission of instructor. Spring

ART 46503 Art History Criticism and Philosophy (3 Credit Hours) An examination of the role of criticism and philosophy in the visual arts throughout history with a special emphasis on twentieth and twenty-first century thought. Prerequisites: none, ART 15404 Western Art History I and ART 25404 Western Art History II recommended. Spring

ART 46604 Darkroom Photography III (4 Credit Hours) This course will build upon the knowledge and skill acquired in ART 36604 Darkroom Photography II. Students will have the opportunity to work in larger formats and continue their technical, formal and conceptual development. Prerequisites: ART 36604 or permission of instructor Spring

ART 48501 Senior Exhibit (1 Credit Hour) Students will gather, document, and present the work they created throughout their academic careers. This is a capstone course that includes an exhibition of student work, a professional portfolio, and an exit interview. Prerequisites: BFA and Art Education majors only, senior status. Spring

ART 48604 Painting III (4 Credit Hours) A continuation of Painting II. There will be an emphasis upon the development of a cohesive portfolio that reflects formal and conceptual concerns. Prerequisites: ART 38604 Spring

ART 48801-04 Selected Topics in Art (1-4 Credit Hours) This course is designed to offer students flexible subjects and topics as requests, need, and/or enrollment arises. Specific course syllabi will vary with each course offering. Students will continue the development of their technical, aesthetic, and conceptual skills, as they take on more challenging projects, new materials, and work more independently. Prerequisite: Permission of the instructor. On Demand.

Many ART courses will contain course fees. Please see the semester schedule for a current listing.
ATH - Anthropology

ATH 12103 (TM) (TAG) Anthropology (3 Credit Hours). The study of humankind throughout time; the study of how our species (Homo sapiens) has changed, and how culture, human biology, and environment interact. The course is an introductory survey of cultural, archaeological, biological, and linguistic diversity. Fall/Spring

ATH 22103 Native American Anthropology (3 Credit Hours). An anthropological survey of the Indians of North America emphasizing the cultural heritage of all Native Americans. Social, religious, political, and economic developments from prehistoric to contemporary time periods are studied in depth for representative Native American cultures. Fall

ATH 23103 (TAG) World Archaeology and Prehistory (3 Credit Hours). An integrated study of human cultural history and the interrelationship of human behavior, material culture, and environment. An introduction to archaeological field methods and research. World Archaeology is the study of past human civilizations from a global perspective. Special emphasis is placed on the development and world system interaction of ancient civilizations, including Southwest Asia, Egypt, Africa, South Asia, Southeast Asia, South Europe, North Europe, Mesoamerica, North America, South America, and the Pacific regions. Spring

ATH 28801-03 Selected Topics in Anthropology (1 to 3 Credit Hours). Selected topics in Anthropology. Topics to be announced in the schedule. On Demand

ATH 29901-03 Directed Studies in Anthropology (1 to 3 Credit Hours). Directed study and/or research under the supervision of an instructor in Anthropology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing and the completion of at least three (3) credit hours in the discipline, as well as sponsorship by an instructor and approval of the Dean of the College of Arts and Sciences. On Demand

ATH 32503 Medical Anthropology (3 Credit Hours). A multicultural approach to health and medical systems; theories about human biological, cultural, and ecological factors in health concepts and environment. Fall

ATH 41504 Anthropological Theory (4 Credit Hours). A critical examination of the developmental history of Anthropological Theory from the Nineteenth Century to the Present. A comprehensive analysis of the diverse schools of thought in Anthropological Theory. Course fee required. Spring

ATH 42103 Native American Anthropology (3 Credit Hours). An anthropological analysis of the Indians of North America emphasizing the cultural heritage of all Native Americans. Social, religious, political, and economic developments from prehistoric to contemporary time periods are studied in depth for representative Native American cultures. This course requires a research paper. Fall

ATH 42403 Introduction to Biological Anthropology (3 Credit Hours). A study of human physical variation with an emphasis on human skeletal variation, modern human population, and non-human primates. This course requires a research paper. Spring

ATH 47702 Anthropology Seminar (2 Credit Hours). Topics vary. Anthropological theory, archaeological theory, history of Anthropology, and Biblical Archaeology. Repeatable with different topics. On Demand

ATH 48801-03 Selected Topics in Anthropology (1 to 3 Credit Hours). Topics to be announced in the schedule. On Demand

ATH 49901-03 Directed Studies in Anthropology (1 to 3 Credit Hours). Independent study and/or research under the supervision of an instructor in Anthropology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Junior or Senior standing and the completion of at least six (6) credit hours in Anthropology, as well as sponsorship by an instructor and approval of the Dean of the College of Arts and Sciences. On Demand

BIO - Biology

BIO 10104 Principles of Human Anatomy and Physiology I (4 Credit Hours). This course examines the fundamental concepts of anatomy and physiology of the human organism with emphasis on cells, tissues, integumentary system, skeletal system, muscular system, cardiovascular system, and respiratory system Three hours lecture, two hours lab. This course is for allied health majors. Course fee required. Prerequisite: C or better in High School Biology and Chemistry or C- or better in Bio 11404 and CHM 10404. Fall and Spring.

BIO 10204 Principles of Human Anatomy and Physiology II (4 Credit Hours). This course examines the fundamental concepts of anatomy and physiology of the human organism with emphasis on nervous, endocrine, lymphatic, digestive, urinary and reproductive systems. Three hours lecture, two hours lab. This course is designed for Allied Health majors. Course fee required. Prerequisite: C- or better in BIO 10104. (Nurses: C or better in BIO 10104). Spring.

BIO 10302 Microbiology for Nurses (2 Credit Hours). This is a survey course to provide the student with an understanding of the basic concepts and methodology of the discipline of microbiology. This course provides a study of microorganisms with emphasis on their relationship to pathogenesis, disease prevention and principles of immunology. Two lecture hours. This course is designed for nursing student ONLY. Course fee required. Prerequisite: C- or better in BIO 10104 (Nurses: C or better in BIO 10104) Spring.

BIO 11404 (TM) Principles of Biology (4 Credit Hours). This course will cover major biological topics about the origin, development, and organization of life. Through lab activities, students will learn to analyze data and use the scientific method to solve problems. Current issues related to biological topics will be discussed as appropriate. Three hours lecture, two hours lab. Course fee required. Fall Spring Summer

BIO 12104 Biology I (4 Credit Hours). Introduces students to the basic concepts of cellular and molecular biology, including but not limited to the studies of the molecules of life, membrane structure and function, cell structure and function, DNA, DNA replication, cellular replication, and basic patterns of inheritance. Students will also be introduced to the process of scientific inquiry, including hypothesis testing and data analysis. Three hours lecture, two hours lab. Course
fee required. Note: This course can be used in place of Principles of Biology to meet the General Education requirement for life sciences. However, Principles of Biology may not be substituted for Biology I for a major in biology or environmental science. Three hours lecture, two hours lab. Course fee required. Fall, Spring.

**BIO 12204 Biology II (4 Credit Hours)** Survey of living organisms, including bacteria, archaea, protists, fungi, plants, and animals, with emphasis on evolution, classification, and the design and function of major biological systems. Students will also be introduced to basic evolutionary and ecological principles. Scientific inquiry including observational skills, experimental design, and data analysis will be emphasized throughout the course. Three hours lecture, two hours lab. Course fee required. Prerequisite: C- or better in BIO 12104. Fall, Spring.

**BIO 20303 Ecology (3 Credit Hours)** Fundamental ecological principles, including factors controlling species distributions, animal behavior, population growth and demography, species interactions, community structure and diversity, and basic ecosystem processes are covered in this course. Students are required to do inquiry-based investigations and analysis of data. Two hours lecture, two hours lab. Course fee required. Prerequisite: C- or better in BIO 12004. Fall

**BIO 21304 Microbiology (4 Credit Hours)** This course is a study of the structure, physiology, classification, and interactions of microorganisms with emphasis on microbes of importance to medicine, industry, and biotechnology. It also includes mechanisms of pathogenicity, body defense mechanisms, and immunology. Three hours lecture, two hours lab. Course fee required. Prerequisite: C- or better in BIO 20303 and BIO 21303. Spring

**BIO 21404 Human Anatomy and Physiology 1 (4 Credit Hours).** This course examines the concepts of anatomy and physiology as they are found in the human organism. Presentations are on the basis of structure, function, and interaction in the areas of cell metabolism, tissues, skin, bone, joints, muscles, central and peripheral nervous systems and endocrinology. Three hours lecture, two hours lab. Course fee required. Prerequisite: C- or better in BIO 12004. Fall

**BIO 22404 Human Anatomy and Physiology 2 (4 Credit Hours).** This course examines the concepts of anatomy and physiology as they are found in the human organism. Presentations are on the basis of structure, function, and interaction in the areas of cardiology, blood, respiration, lymphatics, digestion, nutrition, renal, water balance, reproduction and development. Three hours lecture, two hours lab. Course fee required. Prerequisite: C- or better in BIO 21404. Spring

**BIO 28801-03 Selected Topics in Biology (1-3 Credit Hours).** This course is designed to be taught on demand. It could include research or a seminar approach to topics of biological significance. Prerequisites: Sophomore standing, and permission of instructor and School Chair. Course fee required. On Demand

**BIO 31303 Advanced Ornithology (3 Credit Hours).** This course examines the roles of birds in the web of planetary life, and their adaptive radiation into all of the Earth’s ecosystems through time. Avian life histories, anatomical and physiological adaptations, and mating systems will be emphasized. Breeding species of local occurrence will be utilized as examples when possible. Two hours lecture, two hours lab. Prerequisite: BIO 20303 and BIO 21303 or HC BIO 271, Hocking Campus Only. Spring.

**BIO 31404 Vertebrate Zoology (4 Credit Hours).** The classification, identification, comparative anatomy, and natural history of the vertebrates are considered in this course. Dissection is utilized to study the organ systems of representatives of the classes. Emphasis is given to the identification and natural history of the species common to our region. Three hours lecture, two hours lab. Prerequisite: BIO 20303 and BIO 21303. Spring alternate years.

**BIO 32203 Ecological Methodology (2 Credit Hours).** This course focuses on methods used for ecology-type lab and field studies. In addition to building on the basic application of techniques already examined in lower-level courses as well as introducing other approaches, the nature of the data produced by such methodologies, the reliability of the data obtained and the assumptions of the techniques are considered. Design and analysis of both observational and experimental studies will be emphasized. Two hours lecture. Prerequisite: HC WLM 245 or RIO BIO 35304 and HC MATH 250. Hocking Campus Only. Fall

**BIO 32303 Mammalogy (3 Credit Hours).** This course is a study of mammals with an emphasis on diversity, distribution, life history, ecology, and field techniques. Two hours lecture, two hours lab. Prerequisite: BIO 20303 and BIO 21303 or HC WM 156. Hocking Campus Only. Fall

**BIO 33404 Invertebrate Zoology. (4 Credit Hours)** This course is a survey of the major groups of invertebrates with emphasis on taxonomy, structure, reproduction, and evolution. Three hours lecture, two hours lab. Prerequisite: BIO 20303 and BIO 21303. Fall alternate years.

**BIO 34404/CHM 34404 Introduction to Biochemistry (4 Credit Hours).** This is an introductory course that covers the structure, function, and reactions of biological macromolecules, including proteins, carbohydrates, lipids, and nucleic acids. Four hours lecture. Prerequisites: CHM 27303 and BIO 12104. Fall 2011.

**BIO 35304 Field Biology and Methodology (4 Credit Hours).** This course focuses on the various types of terrestrial and ecosystems common to the region with an emphasis on the study of terrestrial and ecosystems common to the region with an emphasis on the study of biotic and abiotic components and their relationships. Laboratory work will include use of specimen collection techniques, use of taxonomic keys, use of soil and water analysis equipment, and other ecological field methods. Students are required to do inquiry-based investigations and analysis of data. Three hours lecture, three hours lab. Prerequisite: BIO 20303 with a grade of C- or better. Fall

**BIO 35403 Field Botany (3 Credit Hours).** This course covers field identification of local plants. Topics covered include basic classification, naming, taxonomic keys, life histories, and basic growth patterns. Emphasis is on the recognition of woody species of the region. Two hours lecture, two hours lab. Spring 2013.

**BIO 36303 Local Flora (3 Credit Hours).** This course covers classification, morphology, distribution, and identification of the woody and herbaceous plants. Emphasis is on the recognition of the plants and plant communities of the region. One hour lecture, four hours lab. Prerequisite: BIO 20303 or BIO 21303 or Hocking College Associate Degree in Wildlife Sciences. Hocking Campus Only. Fall.
BIO 36404 Genetics (4 Credit Hours). Variation and heredity in living organisms are considered at the whole organism, molecular, and population levels. This course includes an examination of the historical development of genetics from Mendel to modern research on DNA. This course also examines current biotechnology and some of its implications to society. Three hours lecture, two hours lab. Prerequisites: C- or better in BIO 20303 and BIO 21304. Fall 2011, 2012

BIO 37103 Principles of Conservation Genetics (3 Credit Hours). This course is a broad survey of genetic principles and techniques as they apply to the management and conservation of wildlife populations. Beginning with an overview of foundational genetic concepts, the course will progress through contemporary techniques of measuring and characterizing genetic diversity to basic modeling of population genetics. Special emphasis will be placed on the genetics and evolution of small and fragmented wildlife populations. Some lab activities will be incorporated to complement and reinforce concepts and materials covered in lecture. Three hours lecture. Prerequisites: HC BIO 121 and BIO 122 or equivalent. Hocking Campus Only. Spring.

BIO 37404 Cell Biology (4 Credit Hours). This course involves the study of cell structure and function, membrane structure, and function with emphasis at the molecular level. It also includes energetic, metabolism, nucleic acid functions, reproduction, and cellular interactions. Three hours lecture, two hours lab. Prerequisite: C- or better in BIO 20303 and BIO 21304. On Demand.

BIO 38402 Immunology (2 Credit Hours). This course is a study of basic immunologic mechanisms, immunologic techniques (principles and application of methods), and the clinical laboratory correlation of infectious, immune complex, auto immune, immunodeficient, and immunoproliferative diseases, organ and cell transplantation, hypersensitivity states, and tumor immunology. Two hours lecture. Prerequisite: BIO 20303 and BIO 21304. Fall 2012

BIO 40303 Evolution (3 Credit Hours). Evolution is the one unifying theory of modern biology. This course is an examination of the history of evolutionary theory, current concepts of the mechanisms producing change in living organisms, and evidences of these mechanisms. Three hours lecture. Prerequisite: BIO 36404. Fall

BIO 41304 Limnology (4 Credit Hours). A comprehensive study of inland waters. The course focuses on the physical, chemical, biological and morphological characteristics of lakes, streams, rivers, estuaries, and wetlands. Emphasis is place on theory and concepts of limnology in lectures and practice the techniques of water sampling and data collection and analysis in laboratory field studies. Three hours lecture, two hours lab. Prerequisite: BIO 20303 and BIO 21303 OR HC NRM 217 or similar course. Hocking Campus Only. Fall

BIO 42303 Human - Wildlife Conflicts (3 Credit Hours). Theory and practice of assessing and controlling damage done by wild and feral vertebrate animals, especially mammals and birds. Content covers the philosophical, biological, and practical basis for conducting vertebrate pest control. It includes basic information on use of traps, toxicants, repellents, exclusion and other wildlife control methods. Emphasis is on protecting agricultural crops and livestock, forest resources, and property. Two hours lecture, two hours lab. Prerequisites: HC WLM 156, HC WLM 245. Hocking Campus Only. Fall

BIO 43103 Applied Population Biology (3 Credit Hours). This course is a study of basic population processes using conceptual and quantitative approaches. The focus will be on ecological attributes and interactions which govern the structure and growth dynamics of populations across times and space. Fundamental aspects of mathematical modeling and ecological forecasting of populations will be examined with detailed discussion of the relevance to wildlife conservation and management problems. Special emphasis will be placed on species with small, declining, and/or harvestable populations. Two hours lecture, two hours lab. Prerequisite: prerequisite: HC Math 250 or similar course. Hocking Campus Only. Spring.

BIO 43404 Parasitology (4 Credit Hours). This course is a study of the parasites which infect man. Analyses of the morphology life cycles, staining characteristics, geographical habitats, and immunological characteristics will be carried out. Specimen source, collection, storage, transportation, and processing will be discussed. Relationship of parasitic findings to disease stages will be considered. Three hours lecture, two hours lab. Prerequisite: BIO 20303 and BIO 21303. Spring alternate years. Spring 2012

BIO 44303 Human Physiology (3 Credit Hours). This course is a study of the physiology of humans with special emphasis on selected organ systems and physiological mechanisms. Three hours lecture. Prerequisites: BIO 10104 and BIO 10204 or BIO 21404 and BIO 22404. Fall

BIO 45303 Conservation Biology (3 Credit Hours). Conservation Biology is the scientific study of the phenomena that affect the maintenance, loss, and restoration of biological diversity. Topics covered include: 1) the role of ecology, biogeography, and genetics in maintaining species and ecosystem diversity, 2) the effects of human activities on the loss of natural habitats and biodiversity with consideration of strategies developed to combat these threats, 3) key economic and ethical tradeoffs required to sustain biodiversity, 4) key legislation and policies affecting conservation, 5) the role of nongovernmental organizations in conservation, and 6) the design and roles of nature preserves, zoos, and botanical gardens. Two hours lecture, two hours lab. Prerequisites: BIO 20303 and BIO 21303 or HC NRM 210, HC NRM 217. Spring

BIO 47103 GIS Applications for Resource Management (3 Credit Hours). This course is a study of how Geographical Information Systems (GIS) are used in the management and conservation of natural resources. Beginning with an overview of GIS software and basic functions, the course will then address fundamental applications of GIS, including habitat mapping, watershed analysis, species distribution modeling, disease risk mapping, and conservation area planning. The lab component will consist of conducting mini-projects using ArcGIS in each of the fundamental applications listed. Two hours lecture, two hours lab. Prerequisites: BIO 20303 and BIO 21303 or HC NRM 210, HC NRM 217. Spring

BIO 47301 Senior Seminar (1 Credit Hour). A course designed for biology majors in their last semester of study. Course content includes reading, critical review, presentation and discussion of current literature in biology and related areas of specialization. Offered every semester. Student do not enroll until their final semester.

BIO 48801-03 Selected Topics in Biology (1 to 3 Credit Hours). This course is a study of topics not included in other course offerings. The format may be independent or directed studies, a research project, a scheduled class, or a seminar. Open to Biology majors or students in Wildlife and Fish Conservation and Management. Prerequisites: Junior or senior standing, and permission of instructor and School Chair. On Demand
BIO 49901-03 Directed Studies in Biology (1 to 3 Credit Hours). This course is a study of a selected topic in Biology, or Wildlife and Fish Conservation and Management resulting in the writing of a research paper or similar project. Prerequisite: Permission of instructor and School Chair. On Demand

BM - Business Management

BM 20403 Principles of Management. (3 Credit Hours) This course is designed to prepare students for a dynamic profession in which managers plan, analyze, make decisions, evaluate results, solve problems, supervise, lead, train, and learn. Course fee required Fall Spring

BM 22403 Organizational Behavior. (3 Credit Hours) Theories and applications of organizational behavior topics at the individual, group, organizational, and international levels. Lecture, plus outside-class preparation by students for group projects, individual presentations, and class discussion. Prerequisite: ENG 11103 and PSY 11103. Spring

BM 24403 Small Business Management. (3 Credit Hours). This is now listed as ENT 24403 Small Business Management

BM 24503 Project Management. (3 Credit Hours) Examines the organization, planning, and controlling of projects and provides practical knowledge on managing project scope, schedule and resources. Topics include project life cycle, work breakdown structure and Gantt charts, network diagrams and scheduling techniques. Concepts are applied through a simulation project. Course fee required. Prerequisite: IT 10103. Fall

BM 27403 Introduction to Business Law. (3 Credit Hours) A survey course presenting a broad view of the vast array of legal issues affecting daily life in the U.S. business environment. Areas of law covered will include: the court system, common law, statutory law, Constitutional law, torts, crimes, property ownership and control, consumer transactions, insurance and risk management, contract principles, and employment law. Furthermore, the course analyzes in detail how the law applies to contracts and sales and situations with special attention to the Uniform Commercial Code and its application. Also analyzed are collateral sales matters such as commercial paper and secured transactions. The second portion of this course includes an analysis of various business organizations such as corporations, partnerships, and independent contractors, the various aspects of management and liability, and special legal issues relating to these topics. Course fee required Fall Spring

BM 28801-03 (1 to 3 Credit Hours) Selected Topics in Business Management. Selected topics relevant to business management. Course fee required On Demand

BM 28901 Business Portfolio. (1 Credit Hour) Examines career opportunities and professional skills and personal attributes required for a successful career in Accounting, Business Administration, Economics, and Information Technology. Prerequisites: At least 12 hours of the Business Core must be completed. Course fee required. Fall Spring

BM 31403 Human Resource Management. (3 Credit Hours) The study of activities and problems involved in acquiring, maintaining, and developing the organization’s human resources, including productivity, quality of work life, total quality management, basic legislation, equal employment opportunity, diversity, job analysis, human resource planning, recruiting, selection, training, performance management, compensation, and incentives. Prerequisites: BM 20403 and PSY 11103. Fall

BM 35203 Employee Compensation. (3 Credit Hours) The process of determining an equitable compensation structure is studied: internal equity, job analysis, job evaluation, pay discrimination, external equity, employee equity and individual pay, incentive systems, performance evaluation and merit pay, benefits, budgeting and administering the pay system, compensation of special groups, the role of the union, and compensation legislation. Prerequisite: BM 31403. Spring

BM 38801-03 Selected Topics in Business Management. (1 to 3 Credit Hours) Selected topics relevant to business management. On Demand

BM 42403 Organizational Theory. (3 Credit Hours) Basic concepts of organizational theory as it applies to: 1) an open system view of organizations, 2) organizational structure and design, 3) structural influences on organizational processes, 4) managing dynamic processes within the organization, and 5) integrating the total system. Lecture, plus outside-class preparation by the student for group projects, business article analysis, case analysis, and class discussion. Prerequisites: ENG 11103. Fall

BM 43403 Selection & Appraisal. (3 Credit Hours) The process of recruiting (external and internal), selecting, and evaluating performance is studied: job analysis, recruitment planning, equal opportunity issues, realistic job preview, screening, interviewing techniques, references, tests, reliability, validity, utility, performance appraisal, use in training, MBO, rating methods, standards and criteria used, sources of error, legal issues, and obtaining equity and effectiveness. Prerequisite: BM 31403. On Demand

BM 44403 International Business. (3 Credit Hours) The course deals with conducting business in a global economy; interdependence among nations, trade, and foreign investment; economic and political risks of operations in a foreign culture; feasibility of entering foreign markets; social responsibility; the role of Business in economic development, foreign aid, and third world debt; international organizations and communities; reducing trade barriers; international commodity prices; balance of payments accounts; establishing foreign exchange rates, fixed and floating rates, purchasing power parity, the euro; transaction and translation risks, international accounting; dealing with inflation, indexing, the real interest rate; small business exporting, channels, financing, the letter of credit; and the many unique environmental forces upon operations. Prerequisites: BM 20403, MKT 21403, and a previous Economics course. Spring

BM 44503 Project Management. (3 Credit Hours) Examines the organization, planning, and controlling of projects and provides practical knowledge on managing project scope, schedule and resources. Topics include project life cycle, work breakdown structure and Gantt charts, network diagrams, scheduling techniques, budgeting and resource allocation decisions. Concepts are applied through projects with local businesses and written cases. Prerequisite: IT 10103. Fall

BM 46403 Operations Management. (3 Credit Hours) A general overview, including the centrality of operations to the mission of the organization, production processes, improving productivity, competitiveness, decision making, forecasting with the use of statistical tools, product and service design, reliability, production planning and the use of linear programming, statistical process and quality control, TQM, layout, work systems, location, inventory control, MRP, JIT, supply, scheduling, etc. Prerequisites: MTH 21404 or equivalent, BM 20403. Spring
BM 47903 Strategic Management. (3 Credit Hours) An integrated capstone course in general management utilizing all major fields in business to allow the student to apply skills learned in these fields to situations dealing with the firm as a whole. Use of business cases and computer simulation games to provide an integration of principles and techniques learned in Accounting, Economics, Finance, Marketing, and Management. Prerequisites: Senior standing and major in the College of Business, all required 200 and 300 level Business courses. Fall Spring

BM 49102 Internship/Experience in Business Management. (2 Credit Hours) On the job training of at least 100 meaningful hours or 12/13 full working days after approval of the major Professor, Faculty Internship Coordinator, School Chair, and an approved organization, which is expected to give the intern a variety of new and meaningful learning experiences directly related to Business Administration major and the concentration of interest. The intern is expected to grow, work hard, and make a professional contribution to the organization. Fall Spring

BM 49901-03 Directed Studies in Business Management. (1 to 3 Credit Hours) Individual research and work for the advanced student related to major field of study. Prerequisites: Permission of instructor and School Chair, and BM 20403/30403. On Demand

CHM - Chemistry

CHM 10404 (TM) Principles of Chemistry (4 Credit Hours). A survey course with emphasis on the aspects of general chemistry. The laboratory work is intended to illustrate and supplement the practical considerations. This course does not fulfill any requirements for the AS in Chemistry or the Minor in Chemistry. Three hours lecture, three hours lab. Course fee required. Prerequisite: MTH 11403 (C or better) or TEC 11704 (C or better) or placement into higher level math course via placement exam score. MTH 11403 may be taken concurrent with CHM 10404. Fall Spring Summer.

CHM 15005 (TAG) General Chemistry I (5 Credit Hours). This is an intensive course in fundamental atomic and molecular structure, chemical bonding, stoichiometry, states of matter, classification of elements, thermochimistry, and gas laws. The laboratory component is intended to build on topics covered in the corresponding lecture, to develop analytical and preparative skills, and to develop the ability to effectively collect, analyze and report data. Four hours lecture, three hours lab. Course fee required. Prerequisites: MTH 14503 (C or better) or TEC 11704 (C or better) or placement into higher level math course via placement exam score. MTH 14503 may be taken concurrent with CHM 15005. Fall Summer.

CHM 15505 (TAG) General Chemistry II (5 Credit Hours). This is an intensive course in intermolecular forces and phase changes, solutions, kinetics, chemical equilibrium, thermodynamics and electrochemistry. The laboratory component is intended to build on topics covered in the corresponding lecture, to develop analytical and preparative skills, and to develop the ability to effectively collect, analyze and report data. Four hours lecture, three hours lab. Course fee required. Prerequisite: CHM 15005 (C or better). Spring Summer.

CHM 25404 Quantitative Analysis (4 Credit Hours). Fundamental principles of analytical chemistry are stressed. Topics include statistical analyses, titrimetry, separations, chemical equilibrium, spectroscopy, chromatography, electrochemistry, and gravimetry. Three hours lecture, three hours lab. Prerequisite: CHM 15505. Fall 2012.

CHM 26202 (TAG) Organic Chemistry Laboratory I (2 Credit Hours). Using a microscale approach, basic laboratory techniques and principles (including filtration, extraction, crystallization, distillation, chromatography, fractional distillation, and polarimetry) are introduced via the synthesis, isolation, and analysis of organic compounds. Laboratory safety techniques and principles are discussed along with chemical hazards. Data collection and interpretation, keeping a lab notebook, and writing formal lab reports are also stressed. Six hours lab. Course fee required. Prerequisite: CHM 15505. To be taken concurrently with CHM 26303. Fall.

CHM 26303 (TAG) Organic Chemistry Theory I (3 Credit Hours). Topics include: a review of chemical bonding and acid-base chemistry and their applications to organic compounds; organic functional groups and infrared spectroscopy; the reactions and properties of alkanes, alkynes, alkynes, alky halides, alcohols, and ethers; stereochemistry; NMR spectroscopy; properties and mechanisms of substitution, elimination, addition, radical, and oxidation-reduction reactions. Three hours lecture. Prerequisite: CHM 15505. Fall.

CHM 27202 (TAG) Organic Chemistry Laboratory II (2 Credit Hours). Using a microscale approach, more advanced techniques of synthesis, separation, and analysis are introduced, including refractometry, gas chromatography, and spectroscopy. Data collection and interpretation, keeping a lab notebook, and writing formal lab reports are also stressed. The literature of organic chemistry is also introduced via a literature search project, which utilizes library and computer resources. Unknown organic compounds are assigned and the student is responsible – by observing physical properties, performing qualitative tests, making derivatives, and interpreting spectra – for determining the identity of these compounds. Also a multi-step synthesis is performed and the products are analyzed. Six hours lab. Course fee required. Prerequisites: CHM 26202 and CHM 26303. To be taken concurrently with CHM 27303. Spring.

CHM 27303 (TAG) Organic Chemistry Theory II (3 Credit Hours). Topics include: the reactions and properties of conjugated unsaturated compounds and aromatic compounds; the derivatives of benzene; aldehydes and ketones; and carboxylic acids and their derivatives - dicarbonyl compounds, amines, phenols, and aryl halides. Also the properties and mechanisms of electrophilic aromatic substitutions, and nucleophilic additions and substitutions involving carbonyl and acyl compounds are discussed. Three hours lecture. Course fee required. Prerequisites: CHM 26202 and CHM 26303. Spring.

CHM 28303 Instrumental Analysis (3 Credit Hours). Fundamental principles of instrumental analytical chemistry are stressed. Topics include UV-VIS spectroscopy, FT-IR spectroscopy, florescence spectroscopy, NMR spectroscopy, mass spectroscopy, electrochemical analysis, and liquid chromatography. Three hours lecture. Course fee required. Prerequisites: CHM 25404 Quantitative Analysis. Spring 2013

CHM 29901-03 Directed Studies in Chemistry (1 to 3 Credit Hours). This course is a study of a selected topic in Chemistry, resulting in the writing of a research paper or similar project. Course fee required. Prerequisite: Freshman or Sophomore standing, sponsorship by an instructor, and approval of the School Chair. On Demand.

CHM 30302 Integrated Chemistry Laboratory I (2 Credit Hour). A laboratory course integrating the laboratory fundamentals of Physical Chemistry, Inorganic Chemistry, and Instrumental Analysis. Six hours lab. Prerequisites: CHM 25404, CHM 27202, CHM 27303 PHY 18505 CHM 25404 can be taken concurrently. Fall.
CHM 31202 Integrated Chemistry Laboratory II (2 Credit Hour). This is a laboratory course that integrates the laboratory fundamentals of Physical Chemistry, Inorganic Chemistry, Instrumental Analysis, and Biochemistry. This course is a continuation of Integrated Chemistry Laboratory I. Six hours lab. Prerequisites: CHM 30202. Spring.

CHM 32303 Inorganic Chemistry (3 Credit Hours). This course is designed to be a more in-depth coverage of topics introduced or not covered in general and organic chemistry. Topics covered include atomic theory, VSEPR bonding theory, molecular orbital theory, molecular theory, acid-base theory, crystalline structure, representative element chemistry, coordination chemistry, and organometallic chemistry. Three hours lecture. Prerequisites: CHM 27303 Organic Chemistry Theory II. Fall 2012.

CHM 34404/BIO 34404 Introduction to Biochemistry (4 Credit Hours). This is an introductory course that covers the structure, function, and reactions of biological macromolecules, including proteins, carbohydrates, lipids, and nucleic acids. Four hours lecture. Prerequisites: CHM 27303 and BIO 12104. Fall 2011.

CHM 40303 Physical Chemistry Theory I (3 Credit Hours). The fundamental principles of physical chemistry are studied with emphasis on gas laws, thermodynamics, chemical equilibrium, electrochemistry, quantum mechanics, and atomic structure. Three hours lecture. Prerequisites: CHM 27303, MTH 15204, and PHY 18505. Fall 2011.

CHM 41303 Physical Chemistry Theory II (3 Credit Hours). A continuation of CHM 40303. Topics include: molecular structure, molecular symmetry, spectroscopy, statistical thermodynamics, molecules in motion, and chemical kinetics. Three hours lecture. Prerequisite: CHM 40303. Spring 2012.

CHM 44303 Advanced Biochemistry (3 Credit Hours). This is an advanced course that covers the metabolic pathways involving biological macromolecules, including proteins, carbohydrates, lipids, and nucleic acids. Three hours lecture. Prerequisites: CHM 33404/ BIO 34404. Spring 2012.

CHM 45303 Environmental Chemistry (3 Credit Hours). The chemistry and quantitative aspects of environmentally important chemical cycles will be studied. Cycles within the atmospheric, hydroospheric, and lithospheric segments of the environment will be considered, such as ozone formation/destruction, photochemical smog, acid rain, the greenhouse effect, dissolved metals, dissolved nutrients, sewage treatment, and soil structure. This course will emphasize the fundamental chemical principles that govern environmental processes. Three hours lecture. Prerequisites: CHM 28303 Spring 2012.

CHM 46303 Polymer Chemistry (3 Credit Hours). This course is designed to be an upper-level elective for chemistry majors who have an interest in graduate school or working in the field of polymer chemistry. Topics covered include polymer structure, synthesis of polymers and monomers, the different types of polymers, polymer testing and polymer technology. Three hours lecture. Prerequisites: CHM 27303 On Demand.

CHM 47001-04 Senior Research I (1 to 4 Credit Hours). This course is an independent study, with faculty guidance, of a selected topic in Chemistry, beginning with a comprehensive literature search. The results of the literature search will be presented in the form of an oral presentation. Findings from the literature search will be applied to the final laboratory research project, which will be completed in Senior Research II. Prerequisite: CHM 31202 and sponsorship by an instructor. Fall.

CHM 47502-04 Senior Research II (2 to 4 Credit Hours). This course is an independent laboratory experience, with faculty guidance, of a selected topic in Chemistry. The results of the laboratory research will be presented in the form of an oral presentation. The laboratory research will be derived from a comprehensive literature search that was undertaken in Senior Research I. Prerequisite: CHM 47001-04. Spring.

CHM 48801-03 Selected Topics in Chemistry. (1 to 3 Credit Hours) A study of topics not included in other course offerings. The field of study will be selected by faculty in areas with the student's participation. Prerequisite: Permission of the instructor. On Demand.

CHM 49901-05 Directed Studies in Chemistry (1 to 5 Credit Hours). This course is a study of a selected topic in Chemistry, resulting in the writing of a research paper or similar project. Prerequisite: Junior or Senior standing, sponsorship by an instructor, and approval of the School Chair. On Demand.

COM - Communication

COM 11103 Fundamentals of Speech Communication (3 Credit Hours). A study of persuasive and informative discourse, and an introduction to modes of communication primarily focusing on interpersonal and interpersonal communication with experience in public speaking. Course fee required. Fall Spring Summer

COM 11202 Listening (2 Credit Hours). A study of communication as a two-way process with some practical experience in oral communication. Fall Spring

COM 21102 Oral Interpretation (2 Credit Hours). Theory and practice in interpretation of oral reading of speeches, prose, poetry, and drama. Course fee required. Spring

COM 22103 Small Group Communication (3 Credit Hours). The study of small group communication, cooperative thinking, recognition, definition of problems, critical analysis, examination of possible solutions, and leadership and participation. Spring

COM 22104 Argumentation and Debate (4 Credit Hours). Focuses upon reasoned decision making through a study of argumentation and persuasive theory in practices of classical and modern principles. Fall

COM 25103 Mass Communication Theory (3 Credit Hours). The historical development of the media in the U.S., the rise of radio and television, cable and the Internet, privacy, surveillance, responsibility, libel, and law governing past and present communication practices. Course fee required. Fall

COM 29901-03 Directed Studies in Communication (1 to 3 Credit Hours). Independent study and/or research under the supervision of an instructor in Communication or Journalism. May include directed research and readings, formal in-depth study of a topic that is of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Course fee required. On Demand

COM 33103 Health Communication (3 Credit Hours). A study of the communication demands and skills relevant to the student's future role as a professional health practitioner. The focus is on oral skills with practical experience in public presentations. Spring
COM 37703 Communication Seminar (3 Credit Hours). Topics vary; general areas: critical/cultural examination of Internet issues, media technological determinism developments and social constructivism, criticism of the rhetoric of various social movements, intensive studies on rhetorical theory, gender studies advanced interpretation in cross-disciplinary studies, and philosophies of communication and journalism. Fall Spring

COM 41103 History of American Public Address (3 Credit Hours). A critical study of speakers whose effectiveness or lack of it influenced cultural, social, and political events in American life. Fall 2011

COM 42103 Communication Law (3 Credit Hours). Ethical and legal aspects of the First Amendment including responsibility, libel, copyright, regulatory agencies, state and federal laws, and ethical considerations and practices. Spring

COM 43203 Organizational Communication (3 Credit Hours). Overview of organizational communication and business and professional communication. Focus on different perspectives that influence the study of organizational communication such as: types of management, symbolism, culture, and power and politics. Levels examined include person, dyad, group, and collectives. Fall

COM 48801-03 Selected Topics in Speech Communication (1 to 3 Credit Hours). Topics to be announced in the schedule. Prerequisite: Six (6) credit hours in Speech Communication or permission of the instructor. On Demand

COM 49901-03 Directed Studies in Communication (1 to 3 Credit Hours). Independent study and/or research under the supervision of an instructor in Communication. May include research and readings, formal in-depth study of a topic of special interest of the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. On Demand

CS - Computer Science

CS 10103 PC Applications (3 Credit Hours). An introduction to the microcomputer and application software. Emphasis is placed on gaining practical experience with word processing, spreadsheet, presentation graphics, database systems, and the Internet. Two hours lecture, two hours lab. Course fee required. Fall Spring

CS 20104 Computer Programming I (4 Credit Hours). This course introduces fundamental concepts of programming and problem-solving from an object-oriented perspective. Topics include algorithm design, simple data types, control structures, classes, arrays, and strings. The course emphasizes good programming designs and styles, coding, and debugging techniques. A programming language that supports object-oriented paradigm will be used. Three hours lecture, two hours lab. Course fee required. Prerequisite: MTH 11403. Fall

CS 20204 Computer Programming II (4 Credit Hours). This course is a continuation of CS 20104 Computer Programming I. Topics include object-oriented programming with emphasis on program design and style, classes, recursion, searching and sorting, simple data structures, and graphical user interfaces. Three hours lecture, two hours lab. Course fee required. Prerequisite: CS 20104. Spring

CS 21503 Introduction to Database Systems. (3 Credit Hours). This course is an introduction to the concepts of database processing and MIS. Topics include: discussions of major database types, specifically relational databases, discussion of the history of databases and database issues, Database Management Systems (DBMS), SQL queries, updates, data entry, generating reports and forms, and file organization. Two hours lecture, two hours lab. Course fee required. Prerequisite: CS 20104. On Demand

CS 22003 Data Structures (3 Credit Hours). This course builds on the concepts introduced in CS 20104 and CS 20204 Computer Programming I & II with emphasis on algorithms design and analysis, object-oriented design, data structures, and software engineering. Data structure topics include stacks, queues, hashing, linked lists, trees, and graphs. Three hours lecture. Course fee required. Prerequisites: CS 20204. Fall

CS 23303 Visual Basic (3 Credit Hours). This course introduces Visual Basic as an object-oriented programming language, similar to C++. Topics include: fundamental concepts and methods of object-oriented programming; building Windows applications using Visual Basic including programming forms, controls, events, methods, and functions; data representation; control structures; arrays; and other data structures. This is a project-oriented course aimed at providing hands-on experience in Windows-based application development. Prerequisite: CS 20104 or permission of instructor. Course fee required. On Demand

CS 24303/44303 Software Design and Development (3 Credit Hours). This course will introduce a software design, development, and improvement model that can help to perfect professional quality software engineering practices. Topics covered include: introduction to principles and issues concerned with specification, design, implementation, and testing of high quality software; understanding of software life-cycle models; use of development tools, principles, and environments which facilitate ultimate development of large/commercial grade software systems. Computer projects to partially develop some medium scale software will be assigned to translate software development methodologies and concepts into a functional product. Prerequisites: CS 20104 or permission from the instructor. Spring 2013

CS 28801-03 Selected Topics in Computer Science (1-3 Credit Hours). A study of topics not included in regular course offerings. The format may be independent or directed studies or a scheduled class. Prerequisite: Permission of instructor and School Chair. Course fee required. On Demand

CS 29103 Internship (3 Credit Hours). This course provides a student with experience in one of a variety of computer lab settings, including a lab at the University or at a local industry or business site. Prerequisite: Advanced standing in the Programming and Software Development program. On Demand

CS 31503 Programming Languages (3 Credit Hours). This course covers BNF description and regular expressions of programming languages, significant features of existing procedural, imperative, declarative, functional, and object-oriented programming languages. Structure and comparison of languages for numeric and nonnumeric computation are also covered. Languages studied typically include: C, C++, LISP, Pascal, Prolog, SmallTalk, etc. Three hours lecture. Prerequisites: CS 22003. Spring 2013

CS 32003 Operating Systems (3 Credit Hours). This course covers I/O and interrupt structures, system structure, memory management, instruction sets, and microprogramming. Prerequisites: CS 22003. Fall 2011
CS 33403 Web Programming & Development (3 Credit Hours). This course introduces web programming and development. Programming techniques in several web programming languages will be introduced. The client/server concept is emphasized. Writing applications that connect to a database management system will also be covered. Topics in this class include: MS SQL, HTML, XHTML, and XML, JavaScript, Java applets, PHP, MySQL, AJAX techniques. Prerequisite: IT 20403. Spring 2012

CS 41003 Digital Logic and Design (Computer Architecture and Hardware). (3 Credit Hours) This course is an exploration of digital logic and its relation to computer hardware. It covers design and implementation of combinational and sequential circuits, memory, and computer systems architecture. Microprocessor’s instruction set is also covered. Three hours lecture. Prerequisite: CS 20203. On Demand

CS 41503 Advanced Database (3 Credit Hours). This course provides a detailed understanding of physical and logical organization of database (specifically relational), and includes programming assignments that require the design of data base programs in a high level and/or fourth generation language. Topics include: relational algebra, complex queries, database design issues, database components and implementation, SQL database security and recovery, concurrent processing, physical and logical implementation of files and records. Students must have advanced knowledge of a structured programming language, such as C or C++. Prerequisites: CS 21503 and CS 20204, IT 20403. Spring 2012

CS 24303/44303 Software Design and Development (3 Credit Hours). This course will introduce a software design, development, and improvement model that can help to perfect professional quality software engineering practices. Topics covered include: introduction to principles and issues concerned with specification, design, implementation, and testing of high quality software; understanding of software life-cycle models; use of development tools, principles, and environments which facilitate ultimate development of large/commercial grade software systems. Computer projects to partially develop some medium scale software will be assigned to translate software development methodologies and concepts into a functional product. Prerequisites: CS 20104 or permission from the instructor. Spring 2012

CS 46403 Advanced Communication and Networking (3 Credit Hours). This course provides a thorough discussion of digital communication and networking. Topics include: the uses of computer networks and their goals, network structures and design, network layers, topologies, standardization, and Internet working and design issues. Three hours lecture. Prerequisites: CS 22003 and CS 26403. On Demand

CS 48801-03 Selected Topics in Computer Science (1 to 3 Credit Hours). A study of topics not included in regular course offerings. The format may be independent or directed studies or a scheduled class. Prerequisite: Permission of instructor and School Chair. On Demand

CS 49101-04 Senior Project (1-4 Credit Hours). This course provides students with real life situations in processing and problem solving in the field of computer science. This course can consist of various projects or internships, utilizing AI, Graphics, OOP, C, UNIX, etc. Prerequisite: Permission of instructor and School Chair. On Demand

DMS - Diagnostic Medical Sonography

DMS 20103 Principles of Cardiovascular Sonography (3 Credit Hours) An introduction to the profession of Diagnostic Medical Sonography as well as to the clinical setting that is a large portion of the curriculum during subsequent terms. Topics such as the history of ultrasound, scope of practice, Professional Code of Ethics, acoustic terminology, physician and patient interaction, and equipment operation will be discussed. Students will also learn basic EKG including interpretation of lethal heart rhythms and the course of action if a patient presents with one. Students will also learn how the heart rhythm affects acquisition of sonographic images. Prerequisite: acceptance into the DMS program. One hour lecture, six (6) lab hours. Course fee required. Summer

DMS 20503 Principles of General Sonography (3 Credit Hours) An introduction to the profession of Diagnostic Medical Sonography as well as to the clinical setting that is a large portion of the curriculum during subsequent terms. Topics such as the history of ultrasound, scope of practice, Professional Code of Ethics, acoustic terminology, physician and patient interaction, and equipment operation will be discussed. In the clinical setting, students will function under close supervision of qualified sonographers. Prerequisite: acceptance into the DMS program. One hour lecture, six (6) lab hours. Course fee required. Summer

DMS 21003 Physics and Instrumentation I (3 Credit Hours) The first course in sonographic physics and instrumentation covering basic principles of medical sonography. Acoustic variables, the interaction of sound with tissue, transducers, and instrumentation of machine controls will be discussed. Prerequisite: acceptance into the DMS program. Two hours lecture. Course fee required. Fall

DMS 21104 Abdominal Sonography I (4 Credit Hours) The study and the uses of diagnostic medical sonography and its application in the diagnosis of diseases of the abdomen. General principles of medical sonography scanning procedures and ultrasonic characteristics of the various abdominal organs and pathology will be covered. Prerequisite: acceptance into the DMS program. Four hours lecture. Fall

DMS 21203 Gynecological Sonography (3 Credit Hours) The study and the uses of transabdominal and transvaginal medical sonography and its application in the diagnosis of diseases of the female pelvis. The sonographic appearance of the female reproductive organs, surrounding anatomy, the first trimester of pregnancy, and all gynecological pathology will be covered. Prerequisite: acceptance into the General DMS program. Three hours lecture.

DMS 21205 Principles of General Sonography (3 Credit Hours) The study and the uses of transabdominal and transvaginal medical sonography and its application in the diagnosis of diseases of the female pelvis. The sonographic appearance of the female reproductive organs, surrounding anatomy, the first trimester of pregnancy, and all gynecological pathology will be covered. Prerequisite: acceptance into the General DMS program. Three hours lecture.

DMS 21301 Seminar I (1 Credit Hour) The first course in a seminar series on professional development, clinical correlation, student presentations, current issues, and other miscellaneous topics in sonography. Case study presentations will be an integral part of this course. Guest speakers will be utilized on an occasional basis to enhance presentations. Prerequisite: acceptance into the DMS program. One hour lecture. Fall

DMS 21503 General Sonography Practicum I (3 Credit Hours) The initial scanning experience in the General DMS program. In the clinical setting, students will apply learned concepts and techniques related to sonographic imaging. Students will function under close supervision of qualified sonographers. Prerequisite: acceptance into the DMS program. Twenty-four (24) clinical hours. Course fee required. Fall
DMS 22003 Physics and Instrumentation II (2 Credit Hours) A continuation of Physics and Instrumentation I. Doppler ultrasound principles and hemodynamics will be discussed. Students will also learn about artifacts, quality assurance, and bioeffects related to sonography. Course fee required. Prerequisite: DMS 21003. Two hours lecture. Course fee required. Spring

DMS 22103 Abdominal Sonography II (3 Credit Hours) A continuation of Abdominal Sonography I. All abdominal organs not included in Abdominal Sonography I will be covered. This course will also include superficial organs such as thyroid and male reproductive organs. Prerequisite: DMS 21104. Three hours lecture. Spring

DMS 2204 Obstetrical Sonography (4 Credit Hours) An extensive study of the anatomy, physiology, pathology, and sonographic appearance of the developing fetus. Clinical presentation and maternal complications associated with pregnancy are also covered. Prerequisite: DMS 22103. Four hours lecture. Spring

DMS 22301 Seminar II (1 Credit Hour) The second course in a seminar series on professional development, clinical correlation, student presentations, current issues, and other miscellaneous topics in sonography. Case study presentations will be an integral part of this course. Guest speakers will be utilized on an occasional basis to enhance the presentations. Prerequisite: DMS 21301. One hour lecture. Summer

DMS 22503 General Sonography Practicum II (3 Credit Hours) A more advanced scanning experience in the DMS program. In the clinical setting, students will improve upon previously learned skills and techniques related to sonographic imaging. Student will function under close supervision of qualified sonographers. Prerequisite: DMS 21503. Twenty-four (24) clinical hours. Course fee required. Spring

DMS 22601 Human Pathophysiology (3 Credit Hours) An extensive study of all organ systems and their related pathologies. The diagnosis of the pathologies will be discussed in regards to diagnostic testing including but not exclusive to sonography. Student presentations on pathologies of the human body will be an integral part of this course. Prerequisite: acceptance into the DMS program. Spring

DMS 23301 Cardiovascular Seminar I (1 Credit Hour) The first course in a seminar series on professional development, clinical correlation, student presentations, current issues, and other miscellaneous topics in cardiovascular sonography. Case study presentations will be an integral part of this course. Guest speakers will be utilized on an occasional basis to enhance the presentations. Prerequisite: acceptance into the Cardiovascular DMS program. One hour lecture. Fall

DMS 23504 General Sonography Practicum III (4 Credit Hours) The final scanning experience in the general DMS program. In the clinical setting, students will be challenged to function independently with supervision of qualified sonographers. Prerequisite: DMS 22503. Thirty-two (32) clinical hours. Course fee required. Summer

DMS 23601 Registry Review (1 Credit Hour) A review course to prepare for the American Registry for Diagnostic Medical Sonographers (ARDMS). A comprehensive review with multiple practice examinations covering physics and instrumentation, abdominal and small parts sonography, and ob/gyn sonography will be offered. Prerequisite: satisfactory progress in the DMS program. Course fee required. Summer

DMS 23701 Breast Sonography (1 Credit Hour) The study and uses of diagnostic medical sonography and its application in the diagnosis of disease of the breast. This course will include an in-depth study of breast anatomy as well as the ultrasonic characteristics of normal tissue versus pathological processes. The sonographer’s role during ultrasound-guided invasive procedures will be discussed and case studies will be presented. Prerequisite: DMS 22103. One hour lecture. Spring

DMS 24003 Echocardiography I (3 Credit Hours) The study and uses of diagnostic medical sonography and its application as it relates specifically to the heart. EKG interpretation, Holter monitor set-up, cardiac catherization, and cardiac stress testing will be discussed. Two-dimensional imaging, M-mode, Doppler testing, and Transesophageal Echocardiography in the detection of valvular and ischemic heart disease will also be studied. Contrast studies will be introduced. Prerequisite: acceptance into the Cardiovascular DMS program. Three hours lecture. Fall

DMS 24301 Cardiovascular Seminar II (1 Credit Hour) The second in a seminar series on professional development, clinical correlation, student presentations, current issues and other miscellaneous topics in cardiovascular sonography. Case study presentations will be an integral part of this course. Guest speakers will be utilized on an occasional basis to enhance the presentations. Prerequisite: DMS 23301. One hour lecture. Summer

DMS 24503 Cardiovascular Practicum I (3 Credit Hours) The initial scanning experience in the DMS Cardiovascular concentration. In the clinical setting, students will apply learned concepts and techniques related to sonographic imaging. Students will function under close supervision of qualified sonographers. Prerequisite: acceptance into the Cardiovascular DMS program. Twenty-four (24) clinical hours. Course fee required. Fall

DMS 24601 Cardiovascular Registry Review (1 Credit Hour) A review course to prepare for the American Registry for Diagnostic Medical Sonography (ARDMS). A comprehensive review with multiple practice examinations covering cardiac and vascular physics and instrumentation, echocardiography, and vascular sonography will be offered. Prerequisite: satisfactory progression in the Cardiovascular DMS program. One hour lecture. Summer

DMS 25004 Echocardiography II (4 Credit Hours) A continuation of Echocardiography I. Physiology and pathology not covered in Echocardiography I will be presented in this course including pericardial disease processes, prosthetic heart valves, and cardiac tumors. More scanning procedures and ultrasonic characteristics of the heart will be covered as well. Prerequisite: DMS 24003. Four hours lecture. Spring

DMS 25503 Cardiovascular Practicum II (3 Credit Hours) A more advanced scanning experience in the DMS cardiovascular program. In the clinical setting, students will improve upon previously learned skills and techniques related to sonographic imaging. Students will function under close supervision of qualified sonographers. Prerequisite: DMS 24503. Twenty-four (24) clinical hours. Course fee required. Spring

DMS 26002 Pediatric Echocardiography (2 Credit Hours) The study and uses of diagnostic medical sonography and its application as it relates specifically to the embryonic, fetal, and pediatric heart. Two-dimensional imaging, M-mode, Doppler testing, and Transeosophageal Echocardiography in the detection of valvular and ischemic heart disease of the pediatric patient will also be studied. The various types of corrective surgeries for congenital heart disease will also be covered. Prerequisite: DMS 25004. Two hours lecture. Summer
DMS 26504 Cardiovascular Practicum III (4 Credit Hours) The final scanning experience in the DMS cardiovascular program. In the clinical setting, students will be challenged to function independently with supervision of qualified sonographers. Prerequisite: DMS 25503. Thirty-two (32) clinical hours. Course fee required. Summer

DMS 28004 Vascular Sonography I (4 Credit Hours) The first in a two-part series in studying the use of diagnostic medical sonography as it relates to the vascular system. Protocols for performing Vascular Ultrasound and noninvasive testing examinations will be covered, as well as indications, history, and physical examinations. This course will also cover anatomy of the vascular system, vascular pathology, differential diagnosis, and information regarding fluid hemodynamics. Prerequisite: acceptance into the Cardiovascular DMS program. Four hours lecture. Fall

DMS 28801-03 Selected Topics in Diagnostic Medical Sonography. (1 to 3 Credit Hours) This course is a study of DMS topics not included in other course offerings. The format for this course may be special projects, readings, a scheduled class, or a seminar. Prerequisite: Acceptance into the DMS program. On Demand

DMS 29003 Vascular Sonography II (3 Credit Hours) The second part of a two-part series in studying the use of diagnostic medical sonography as it relates to the vascular system with particular attention to the venous system. Duplex, pulsed and continuous wave Doppler velocimetry of peripheral and intra-extra-cranial systems will be studied along with plethysmography testing. This course will discuss more physiology and pathology of the vascular system not covered in Vascular Sonography I. More scanning procedures and ultrasonic characteristics of the vascular system will be covered. Prerequisite: DMS 28004. Three hour lecture. Spring

DMS 29901-03 Directed Studies in Diagnostic Medical Sonography (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in diagnostic medical sonography. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing, the completion of at least one semester of DMS courses, and permission of the instructor and program director. Course fee may be required. On Demand

DMS 33301 Cardiovascular Seminar I (1 Credit Hour) The first course in a seminar series on professional development, clinical correlation, student presentations, current issues, and other miscellaneous topics in cardiovascular sonography. Case study presentations will be an integral part of this course. Guest speakers will be utilized on an occasional basis to enhance the presentations. Prerequisite: completion of the General DMS AAS program or equivalent. One hour lecture. Fall

DMS 34003 Echocardiography I (3 Credit Hours) The study and uses of diagnostic medical sonography and its application as it relates specifically to the heart. EKG interpretation, Holter monitor set-up, cardiac catheterization, and cardiac stress testing will be discussed. Two-dimensional imaging, M-mode, Doppler testing, and Transthoracic Echocardiography in the detection of valvular and ischemic heart disease will also be studied. Contrast studies will be introduced. Prerequisite: completion of the General DMS AAS program or equivalent. Three hours lecture. Fall

DMS 34301 Cardiovascular Seminar II (1 Credit Hour) The second in a seminar series on professional development, clinical correlation, student presentations, current issues and other miscellaneous topics in cardiovascular sonography. Case study presentations will be an integral part of this course. Guest speakers will be utilized on an occasional basis to enhance the presentations. Prerequisite: DMS 33301. One hour lecture. Summer

DMS 34503 Cardiovascular Practicum I (3 Credit Hours) The initial scanning experience in the DMS Cardiovascular concentration. In the clinical setting, students will apply learned concepts and techniques related to sonographic imaging. Students will function under close supervision of qualified sonographers. Prerequisite: completion of the General DMS AAS program or equivalent. Twenty-four (24) clinical hours. Fall

DMS 34601 Cardiovascular Registry Review (1 Credit Hour) A review course to prepare for the American Registry for Diagnostic Medical Sonography (ARDMS). A comprehensive review with multiple practice examinations covering cardiac and vascular physics and instrumentation, echocardiography, and vascular sonography will be offered. Prerequisite: satisfactory progression in the Cardiovascular DMS program. One hour lecture. Summer

DMS 35503 Cardiovascular Practicum II (3 Credit Hours) A more advanced scanning experience in the DMS cardiovascular program. In the clinical setting, students will improve upon previously learned skills and techniques related to sonographic imaging. Students will function under close supervision of qualified sonographers. Prerequisite: DMS 34503. Twenty-four (24) clinical hours. Spring

DMS 35602 Pediatric Echocardiography (2 Credit Hours) The study and uses of diagnostic medical sonography and its application as it relates specifically to the embryonic, fetal, and pediatric heart. Two-dimensional imaging, M-mode, Doppler testing, and Transthoracic Echocardiography in the detection of valvular and ischemic heart disease of the pediatric patient will also be studied. The various types of corrective surgeries for congenital heart disease will also be covered. Prerequisite: DMS 35503. Two hours lecture. Summer

DMS 36504 Cardiovascular Practicum III (4 Credit Hours) The final scanning experience in the DMS cardiovascular program. In the clinical setting, students will be challenged to function independently with supervision of qualified sonographers. Prerequisite: DMS 35503. Thirty-two (32) clinical hours. Summer

DMS 38004 Vascular Sonography I (4 Credit Hours) The first in a two-part series in studying the use of diagnostic medical sonography as it relates to the vascular system. Protocols for performing Vascular Ultrasound and noninvasive testing examinations will be covered, as well as indications, history, and physical examinations. This course will also cover anatomy of the vascular system, vascular pathology, differential diagnosis, and information regarding fluid hemodynamics. Prerequisite: completion of the General DMS AAS program or equivalent. Four hours lecture. Fall
DMS 39003 Vascular Sonography II (3 Credit Hours) The second part of a two-part series in studying the use of diagnostic medical sonography as it relates to the vascular system with particular attention to the venous system. Duplex, pulsed and continuous wave Doppler velocimetry of peripheral and intra-extra-cranial systems will be studied along with plethysmography testing. This course will discuss more physiology and pathology of the vascular system not covered in Vascular Sonography I. More scanning procedures and ultrasonic characteristics of the vascular system will be covered. Prerequisite: DMS 38004. Three hour lecture. Spring

DMS 41003 Physics and Instrumentation I (3 Credit Hours) The first course in sonographic physics and instrumentation covering basic principles of medical sonography. Acoustic variables, the interaction of sound with tissue, transducers, and instrumentation of machine controls will be discussed. Prerequisite: Successful completion of an AAS in DMS or RAD or its equivalent. Two hours lecture. Fall

DMS 41104 Abdominal Sonography I (4 Credit Hours) The study and the uses of diagnostic medical sonography and its application in the diagnosis of diseases of the abdomen. General principles of medical sonography scanning procedures and ultrasonic characteristics of the various abdominal organs and pathology will be covered. Prerequisite: completion of the Cardiovascular DMS program or equivalent. Four hours lecture. Fall

DMS 41203 Gynecological Sonography (3 Credit Hours) The study and the uses of transabdominal and transvaginal medical sonography and its application in the diagnosis of diseases of the female pelvis. The sonographic appearance of the female reproductive organs, surrounding anatomy, the first trimester of pregnancy, and all gynecological pathology will be covered. Prerequisite: completion of the Cardiovascular DMS program or equivalent. Three hours lecture.

DMS 41301 Seminar I (1 Credit Hour) The first course in a seminar series on professional development, clinical correlation, student presentations, current issues, and other miscellaneous topics in sonography. Case study presentations will be an integral part of this course. Guest speakers will be utilized on an occasional basis to enhance presentations. Prerequisite: completion of the Cardiovascular DMS program or equivalent. One hour lecture. Fall

DMS 41503 General Sonography Practicum I (3 Credit Hours) The initial scanning experience in the General DMS program. In the clinical setting, students will apply learned concepts and techniques related to sonographic imaging. Students will function under close supervision of qualified sonographers. Prerequisite: completion of the Cardiovascular DMS program or equivalent. Twenty-four (24) clinical hours. Fall

DMS 412003 Physics and Instrumentation II (2 Credit Hours) A continuation of Physics and Instrumentation I. Doppler ultrasound principles and hemodynamics will be discussed. Students will also learn about artifacts, quality assurance, and bioeffects related to sonography. Prerequisite: DMS 41003. Two hours lecture. Spring

DMS 42103 Abdominal Sonography II (3 Credit Hours) A continuation of Abdominal Sonography I. All abdominal organs not included in Abdominal Sonography I will be covered. This course will also include superficial organs such as thyroid and male reproductive organs. Prerequisite: DMS 41104. Three hours lecture. Spring

DMS 42004 Obstetrical Sonography (4 Credit Hours) An extensive study of the anatomy, physiology, pathology, and sonographic appearance of the developing fetus. Clinical presentation and maternal complications associated with pregnancy are also covered. Prerequisite: DMS 41203. Four hours lecture. Spring

DMS 42301 Seminar II (1 Credit Hour) The second course in a seminar series on professional development, clinical correlation, student presentations, current issues, and other miscellaneous topics in sonography. Case study presentations will be an integral part of this course. Guest speakers will be utilized on an occasional basis to enhance the presentations. Prerequisite: DMS 41301. One hour lecture. Summer

DMS 42503 General Sonography Practicum II (3) A more advanced scanning experience in the DMS program. In the clinical setting, students will improve upon previously learned skills and techniques related to sonographic imaging. Student will function under close supervision of qualified sonographers. Prerequisite: DMS 41503. Twenty-four (24) clinical hours. Spring

DMS 43504 General Sonography Practicum III (4 Credit Hours) The final scanning experience in the general DMS program. In the clinical setting, students will be challenged to function independently with supervision of qualified sonographers. Prerequisite: DMS 42503. Thirty-two (32) clinical hours. Summer

DMS 43601 Registry Review (1 Credit Hour) A review course to prepare for the American Registry for Diagnostic Medical Sonographers (ARDMS). A comprehensive review with multiple practice examinations covering physics and instrumentation, abdominal and small parts sonography, and ob/gyn sonography will be offered. Prerequisite: satisfactory progress in the General DMS program. Summer

DMS 43701 Breast Sonography (1 Credit Hour) The study and uses of diagnostic medical sonography and its application in the diagnosis of disease of the breast. This course will include an in-depth study of breast anatomy as well as the ultrasonic characteristics of normal tissue versus pathological processes. The sonographer’s role during ultrasound-guided invasive procedures will be discussed and case studies will be presented. Prerequisite: DMS 42103. One hour lecture. Spring

DMS 48801-03 Selected Topics in Diagnostic Medical Sonography. (1 to 3 Credit Hours) This course is a study of DMS topics not included in other course offerings. The format for this course may be special projects, readings, a scheduled class, or a seminar. Prerequisite: Acceptance into the DMS program. On Demand

DMS 49901-03 Directed Studies in Diagnostic Medical Sonography (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in diagnostic medical sonography. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Junior or senior standing, the completion of at least the two-year degree in DMS or RAD, and permission of the instructor and program director. On Demand
ECO - Economics

ECO 11103 (TM) Contemporary Economics. (3 Credit Hours)
A survey of basic concepts such as economic growth, distribution, inflation, interest rates, costs, supply, demand, and public goods. Topics covered also include American capitalism, market failures, unemployment, taxation and trade. (This course is at the elementary level and is not to be substituted for another Economics course requirement.) Course fee required Fall Spring

ECO 11403 Introduction to Microeconomics. (3 Credit Hours)
Nature of economic problems, theory of consumer behavior, theory of firm markets, and resource allocation. Course fee required Fall Spring

ECO 12403 Introduction to Macroeconomics. (3 Credit Hours)
Introduction to macro-level economic problems. National income, inflation, employment, fiscal policy, monetary policy, economic growth, and global economic issues. Course fee required Fall Spring

ECO 28801-03 Selected Topics in Economics. (1 to 3 Credit Hours)
Selected topics relevant to economics. Can be repeated for credit. Prerequisites: ECO 11403 and ECO 12403. Course fee required On Demand

ECO 29901-03 Directed Studies in Economics. (1 to 3 Credit Hours)
Individual research and work related to major field of study for the advanced student. Prerequisite: Permission of the instructor. Course fee required On Demand

ECO 30403 Intermediate Economic Analysis. (3 Credit Hours)
An intermediate treatment of resource allocations in market economy. Prerequisites: ECO 11403 and ECO 12403. Fall

ECO 31403 Labor Relations. (3 Credit Hours)
A study of labor force, labor market, trade, unionism, collective bargaining, wages, unemployment, and public policy toward labor. Prerequisites: ECO 11403 and ECO 12403. Spring

ECO 33403 Monetary & Fiscal Policy. (3 Credit Hours)
Federal reserve system, national income accounting, employment, inflation and economic growth, and monetary and fiscal policies. Prerequisites: ECO 11403 and ECO 12403. On Demand

ECO 34403 Business & Economic Forecasting. (3 Credit Hours)
Forecasting techniques. Analyzing cross section and time series data. Box-Jenkins (ARIMA) models. Computer applications using selected forecasting software. Computer lab section suggested. Prerequisite: MTH 21404. On Demand

ECO 38801-03 Selected Topics in Economics. (1 to 3 Credit Hours)
Selected topics relevant to economics. Can be repeated for credit. Prerequisites: ECO 11403 and ECO 12403. On Demand

ECO 39901-03 Directed Studies in Economics. (1 to 3 Credit Hours)
Individual research and work related to major field of study for the advanced student. Prerequisite: Permission of the instructor. On Demand

ECO 41403 International Economics. (3 Credit Hours)
This course examines trading relations between countries. Topics covered include the reasons for trade, the extent and direction of trade, and the gains and losses from trade restrictions. Prerequisite: ECO 30403. On Demand

ECO 42403 Managerial Economics. (3 Credit Hours)
Applications to price theory, business firms decision making and economic models, and economic efficiency and welfare. Prerequisites: MTH 21404, MTH 15004, and ECO 11403. Spring

ECO 43403 History of Economic Thought. (3 Credit Hours)
A survey of economic doctrines from mercantilism to the present. Prerequisites: ECO 11403 and ECO 12403. On Demand

ECO 44403 Public Finance. (3 Credit Hours)
Examines government decision making for taxing and spending. Topics covered include reasons for government involvement in the economy, the effects of government involvement, and evaluation of policies. Prerequisite: ECO 30403. On Demand

ECO 45403 Development. (3 Credit Hours)
The study of development of underdeveloped economies as it relates in population growth, cultural change, and industrialization. Several readings from various authors across the political spectrum will be used to give a balanced viewpoint of the problem. Prerequisites: ECO 11403 and ECO 12403. On Demand

ECO 46403 Health Economics. (3 Credit Hours)
Equips the student to perform economic evaluation of health care systems by comparing the resource implications of alternative ways to deliver health care, e.g., an assessment of the efficiency of new health technologies such as MRI scans. Prerequisites: ECO 11403 and ECO 12403. Spring

ECO 49102 Internship/Experience in Economics. (2 Credit Hours)
On the job training of at least 100 meaningful hours or 12/13 full working days after approval of the major Professor, Faculty Internship Coordinator, School Chair, and an approved organization, which is expected to give the intern a variety of new and meaningful learning experiences directly related to the Business Administration major and the concentration of interest. The intern is expected to grow, work hard, and make a professional contribution to the organization. On Demand

ECO 49901-03 Directed Studies in Economics. (1 to 3 Credit Hours)
Individual research and work related to major field of study for the advanced student. Prerequisite: Permission of the instructor. On Demand

EDU - Education

EDU 10201 Technological Literacy. (1 Credit Hour)
This course studies the impact of technology on general education. Methods and applications of computer usage in an integrated program will also be discussed. Focus is placed on word processing, database, and spreadsheet applications. Course fee required. Fall Spring Summer

EDU 10303 School and Community. (3 Credit Hours)
This beginning teacher education course teaches the historical foundations of education of American schools. The impact of the entire society on the formation and shaping of schools is stressed. Teacher candidates are introduced to the major philosophies of education and their impact on and evidence in classrooms. A thirty (30) hour field experience is required for this course. Fall Spring

EDU 11403 Art in the Curriculum. (3 Credit Hours)
Course studies the creative/expressive development of early childhood, mild/moderate, and middle school learners. Supportive materials include national and Ohio Academic Content Standards. Learner
EDU 11504 Theoretical & Historical Perspectives in ECD. (4 Credit Hours) The study of child development from prenatal to age 8 is explored via leading theories inclusive of psychoanalytic, behaviorist, cognitive, and constructivist perspectives. Connections across developmental levels affecting social, emotional, physical, and cognitive growth are examined. Best practices on issues of teacher/family communication, and cultural/diversity awareness are central to the study. A ten (10) hour field experience is required for this course. Course fee required. Fall Spring

EDU 11601 Field Experience: Cultural Diverse Settings. (1 Credit Hour) This twenty (20) clock hour field experience requires the teacher candidate to assist school-aged students in a cultural diverse setting. The teacher candidate must select a setting representing diversity of population. This experience must be completed during any academic term preceding the semester of clinical practice. Fall Spring Summer

EDU 12503 Adolescent to Young Adult Content Area Reading for Career Technical. (3 Credit Hours) This course stresses the role of reading, writing, talking, and listen/visual strategies as necessary and inseparable forms of communication in all content areas. The focus of instruction is to help teacher candidates teach students to be life-long learners, using communication strategies to both gather and share information. A 30 hour field experience in the teacher candidate’s concentration in an AYA setting is required. This experience will include activities such as observing, planning and teaching lessons using content area reading strategies, and keeping a journal reflecting upon classroom observations and activities as they relate to concepts studied in class. Open only to CT Licensure Program candidates. Summer

EDU 20003 Planning for Instruction/Classroom Management for CT. (3 Credit Hours) A pre-service course designed to prepare novice teachers for entry into the teaching profession. Includes study of the principles of learning and teaching and professional roles expected of teachers. Course fee required. Fall

EDU 20302 Basics of Early Care & Education. (2 Credit Hours) This course introduces teacher candidates to Early Childhood Education, including infants, toddlers, preschool, and primary children, as a course of study and as a profession. A variety of topics will be covered including integrated curriculum planning (physical skills, cognitive skills, communication skills, creative skills, and social skills), classroom management, positive individual and group guidance, and problem-solving techniques and strategies. Creating a physically and psychologically safe and healthy environment for all children will be a primary focus. Developmentally appropriate practice will be defined and examined. A ten (10) hour field experience is required for this course. Course fee required. Fall Summer

EDU 20401 Integrated Classroom Management & Learning Environment (concurren with EDU 20403). (1 Credit Hour) This is the first course in Classroom Management. As part of the foundation for thinking about the teaching and learning process, the teacher candidate will use EDU 20403 to begin an understanding of the principles of classroom management. Attention is drawn to the physical learning environment and viewing the teacher as planner, educator, and manager for the classroom. Fall Spring

EDU 20403 Planning for Instruction. (3 Credit Hours) This course will provide the teacher candidate with the basic understandings of the teaching process. Based on a five-phase model of instruction the teacher candidate will be introduced to the cognitive, affective, and psychomotor domains of learning. The teacher candidate will be instructed in the development of appropriate objectives for any learner. Pre-assessment of learners will be discussed. The day-to-day work of the classroom teacher will be surveyed. The development of good teaching units will be studied, the importance of daily lesson plans will be discussed, and lesson plans based on age appropriate objectives will be written. Candidates will be introduced to the procedure to follow and complete the process to be admitted into the School of Education. Portfolio Benchmark I Completed with this course. Fall Spring

EDU 22102 Observation and Visitation I (yr. 1). (2 Credit Hours) Field-based experiences at the career-technical school. On-site visits by teacher educator to guide and evaluate novice teachers in the application of and participation in simulated exercise, field experience, and group seminars. Course fee required. Fall

EDU 22202 Observation and Visitation II (yr. 1). (2 Credit Hours) Continuation of the field-based experiences begun in EDV 22102, including on-site visits by a teacher educator. Course fee required. Spring

EDU 22203 Science, Health, & Nutrition Methods & Intervention Techniques for Middle Childhood. (3 Credit Hours) The teaching of modern/contemporary science, health, and nutrition for children from grade 3 to grade 9 with emphasis placed on objectives, curriculum, materials, methods of teaching, and evaluation/assessment. Development and applications of the NRC National Science Standards and the Ohio Science Model as they relate to the middle grades level. A field experience of 20 hours in the middle grade setting is required. Course fee required. Fall

EDU 22302 Observation, Assessment, & Evaluation. (2 Credit Hours) This class focuses on using effective methods for observing, assessing, and documenting the development of young children from birth through grade three. Gaining insight as to how each child in a group setting is developing is essential to planning a curriculum that meets each child’s needs. Culturally unbiased informal and formal assessment strategies will be studied. A fifteen hour field experience is required for this course. Prerequisites: EDU 11504 and EDU 20302. Course fee required. Spring Summer

EDU 22303 Science, Health, & Nutrition Methods & Intervention Techniques for Early Childhood. (3 Credit Hours) The teaching of modern/contemporary science, health, and nutrition for children from age 3 to grade 3 with emphasis placed on objectives, curriculum, materials, methods of teaching, and evaluation/assessment. Development and applications of the NRC National Science Standards and the Ohio Academic Content Standards as they relate to the early childhood level. A twenty hour field experience in early childhood setting is required. Course fee required. Fall Spring
EDU 22403 Educating the Exceptional Learner. (3 Credit Hours)
This course will cover exploration of levels of severity and needs of exceptional children and adults to age 21 in educational settings and in the community. It is a general survey course of social/emotional, cognitive, and learning style characteristics, causes, Individualized Education Programs, and educational placement and instruction for students with exceptionalities. A ten-hour field experience is required. Prerequisite: Second Year Rank. Fall Spring

EDU 22503 Content Area Reading for Early Childhood. (3 Credit Hours) This course stresses the importance of reading as a means to learn, to access information, and to enhance the quality of life. Teacher candidates explore methods and procedures to engage early childhood students in exploring reading across the curriculum. Emphasis is placed on the young children’s construction of meaning through prior knowledge, written language, and the various reading contexts. Reading, writing, listening, and speaking are explored through best practices that embrace concepts about the purpose and function of reading, writing, and print conventions. The course stresses constructivist processes and emphasizes that meaning, content, purpose, tasks, and setting influence the reading process. Diversity of students and culture are explored with a rich variety of cultural literature for young children (ages 3-8). Direct instruction and modeling of “What”, “When”, and “How” to use reading strategies with narrative and expository texts are stressed. Effective study and questioning strategies are explored as well as strategies that encourage and motivate students to pursue and respond to reading and writing for personal growth and fulfillment. Authentic assessment/learning style, teaching to exceptionalities, use of technology, and integrated curriculum for early childhood students are explored. The communication skills of talking and listening and the enriching aspects of drama, oral presentation, and theme study are stressed. Utilization of the Ohio English Language Arts Academic Content Standards is required. Sensitivity to the developmental needs of young children, communication with parents, collaboration with colleagues, and community/agency interfacing are emphasized. Building positive and supportive relationships with children, encouraging positive social interactions among children, promoting positive strategies of conflict resolution, and the child’s development of self-control, self-motivation, and self-esteem are stressed. Sensitivity to the influence of the physical setting, schedule, routines, and transitions of children are highlighted. A fifteen hour field experience in a partnership school is required. Course fee required. Fall Spring

EDU 23403 Family & Community Relations in Early Childhood. (3 Credit Hours) This course examines various concepts of parenthood, characteristics of parent-child relations, and changes in parent-child relationships throughout history. The economic, structural, and psychosocial factors are examined in light of the parenting as a developmental role. The diversity of contemporary American families is examined from the conceptions of families, their characteristics, ideas, and functions. Diversity of family forms and ethnic diversity are examined, with the teacher candidate focusing on the strength of the given family form and/or ethnic background to determine a means of supporting parents in their parenting activities. Stress is given to communication, affirmation, support, and respect present in healthy families and other attributes that may contribute in a positive way. Course fee required. Fall

EDU 23503 Content Area Reading for Middle Childhood. (3 Credit Hours) Course stresses importance of reading as a means to learn, to access information, and to enhance the quality of life. Teacher candidates explore methods and procedures to engage middle school pupils in exploring reading across the curriculum. Emphasis is placed on middle schoolers’ construction of meaning through prior knowledge, written language, and the various reading contexts. Reading, writing, listening, and speaking are explored. Course stresses constructivist processes and emphasizes that meaning, content, purpose, tasks, and setting influence the reading process. Diversity of students and culture are explored with a rich variety of cultural literature for middle schoolers. Direct instruction and modeling of “What”, “When”, and “How” to use reading strategies with narrative and expository texts stressed. Effective study and questioning strategies explored as well as strategies that encourage and motivate students to pursue and respond to reading and writing for personal growth and fulfillment. Authentic assessment/learning style, teaching to exceptionalities, use of technology, integrated curriculum, cooperative learning, class-room management, independent learning, and community based projects for middle schoolers are explored. The communication skills of talking and listening and the enriching aspects of drama, oral presentation, and project study are stressed. Utilization of the Ohio English Language Arts Academic Content Standards is required for the related middle school. A fifteen hour field experience in a partnership school is required for this course. Course fee required. Fall Spring

EDU 24002 Foundations of Learning and Teaching (2 Credit Hours) This course includes topics such as, theorists, brain-based learning and cognitive processes associated with learning. The course also addresses issues of learner motivation and classroom management. Course fee required. Summer

EDU 24101 Assessment of Learning and Teaching (1 Credit Hour) This course builds on EDU 24002 Foundations of Learning and Teaching. Topics included are types of assessments, characteristics of assessments, scoring of assessments, reporting assessment results, use of assessments, and assessment role in school improvement models of Baldrige and High Schools That Work. Course fee required. Summer

EDU 24303 Early Childhood Integrated Language Arts/Social Studies Methods. (3 Credit Hours) Curricular applications of nature/needs of early childhood studied via the Ohio Academic Content Standards. The research and experience-based principles of effective practices for encouraging the intellectual, social, and personal development of students are the frameworks for study. Multiple intelligences, learning styles, diversity enriched curricula free of stereotyping, active learning, authentic assessment, use of group guidance, problem-solving techniques, and multiple discipline learning are stressed. Positive social interaction is explored through the venues of verbal, nonverbal, and media communications. Technology applications required. Parent involvement with the school program is embraced. Best practices for inclusion are requirements for all instructional/social activities. The Ohio Academic Content Standards is used for instructional planning. Curriculum content areas explored (language and literacy, mathematics, science, health, safety, nutrition, social studies, art, music, drama, and movement). Thematic teaching with authentic assessment stressed. Appropriate formal and informal assessment strategies required. Portfolio development accompanies the experience and course study. A fifteen hour field experience is required for this course. Course fee required. Fall Spring

EDU 24503 Integrated Language Arts/Social Studies Methods for Intervention Specialists. (3 Credit Hours) Curricular applications of the nature and needs of learners with mild/moderate exceptionalities are studied via the Ohio Academic Content Standards for English/Language Arts and Ohio Academic Content Standards for Social Studies.
EDU 25403 Professionalism and Ethical Practices for the Intervention Specialist. (3 Credit Hours) This course delineates federal, state, and local laws, procedures, policies, and standards related to the assessment, eligibility, identity process, Individualized Education Programs, and placement of students into special education programs. Legal history, provisions, rights, current research, and issues concerning parents, teachers, and other school and community professionals in relation to students with disabilities will be emphasized. Ethical issues related to assessment, placement, medication, orientation, and gender biases will be investigated. The role of the professional organizations (CEC) with regards to Code of Ethics and other standards and policies of the profession will be explored. Spring

EDU 26102 Observation and Visitation I (yr. 2). (2 Credit Hours) A second year course of field-based experiences at the career-technical school supported by on-site visits by a teacher educator. Course fee required. Fall

EDU 26103 Introduction to Students with Mild/Moderate Disabilities. (3 Credit Hours) This is an exploration of etiology and developmental characteristics of students with mild/moderate disabilities including such anomalies as attention deficit disorder.. Students may assist the classroom teacher and may tutor students with informal lessons. A ten (10) hour field experience is required for this course. Course fee required. Fall

EDU 26201 Observation and Visitation II (yr. 2). (1 Credit Hour) Continuation of the second year course of field based experiences at the career-technical school. Including on-site visits by teacher educator. Course fee required. Spring

EDU 26403 Middle Childhood Integrated Social Studies Methods. (3 Credit Hours) Curricular applications of nature/needs of Young Adolescents (grades 4-9) studied via the Ohio Social Studies Academic Content Standards. Students study effective practice strands of the Social Studies Model in the Partnership School Setting. Technology applications required. Multiple intelligences, learning styles, diversity enriched curricula free of stereotyping, active learning, special projects, service/community activities, and constructivist learning are applied to teaching middle childhood students. Critical thinking, problem solving, and performance skills are pursued. Social interaction is explored through the venues of verbal, nonverbal, and media/technology applications. Best practices explored for inclusion requirements for all instructional/service activities. Supportive interaction and self-motivation of middle childhood learners explored for enhanced student involvement/achievement. Integrated studies across middle grades curricula are emphasized. Ohio Academic Content Standards is a framework for instructional planning. Social science strands utilized as frameworks for thematic, cross-curricular studies. Appropriate middle school formal and informal assessment strategies utilized. A required field experience takes place in a middle school setting that supports the principles of the National Middle School Association. Activities include observation, participation, and teaching (individual students, small groups, and large groups). Self-reflection on best practices in teaching young adolescents is required. Portfolio development accompanies the experience and course study. A fifteen (15) field experience is required for this course. Course fee required. Fall

EDU 26501 Middle Childhood Seminar I (1 Credit Hour) In this course the teacher candidate will become familiar with the seven National Middle School Standards (NMSA) and indicators with each standard. The teacher candidate will be able to produce examples of artifacts with these standards. Exploration of middle adolescent characteristics (intellectual, physical, social, emotional, and moral development) will be emphasized. Completing a case study on a middle school child will allow the teacher candidate to reflect on characteristics of the young adolescent and provide an educational plan for the strengths and weaknesses of the young adolescent. Components of service learning and mentorship in an advisor/advisee relationship of middle schools will be explored as well as the latest technology available to help the young adolescent succeed with school and the community. Professional communication models from various sources within the school community will focus on ways to involve parents and other adults to encourage the young adolescent. Spring

EDU 27002 Curriculum Alignment (CT). (2 Credit Hours) Guidance in developing and using the course of study and the curriculum guide. Included in the course is a focus on the historical foundations of career-technical curriculum development. Course fee required. Fall

EDU 27302 Career Technical Education Linkages (2 Credit Hours) Explores interface of career-technical education practitioners with business-industry and government to form mutually productive partnerships in technology transfer. Course fee required. Fall

EDU 27702 Diversity of Learners. (2 Credit Hours) This course presents a comprehensive introduction of the continuum of educational and instructional options for the special needs learners from middle school through adulthood. Additionally, procedures for preparing exceptional persons to fulfill their career roles as workers, family members, and community residents will be examined. Course fee required. Spring

EDU 28003 Student Centered Learning. (3 Credit Hours) Designed to assist novice teachers in building a student centered classroom leadership program. How to integrate leadership concepts to enhance career technical student organizations (CTSO) involvement and culminating projects will be examined. Course fee required. Spring

EDU 28204 Math Methods & Intervention Techniques for Early Childhood. (4 Credit Hours) A course focusing on teaching children mathematics from age three to grade three with emphasis placed on state and national curriculum standards, educational resources, developmentally and culturally appropriate practice, technology and evaluation/assessment. A twenty hour field experience in an appropriate classroom setting is required which may include observation, tutoring, and teaching whole classes. Enrollment restricted to students enrolled in the Associate of Applied Science in Early Childhood Education program. Prerequisite: Math 20504 Mathematics for Educators II. Course fee required. Fall Spring
EDU 28302 Early Childhood Development Portfolio. (2 Credit Hours) This course is designed to give an overview of principles and practices of democratic administration and the development of policies to implement a school’s philosophy. Various patterns of school organization will be examined. Portfolio development and a written resume are required in this class. Other experiences include: roles of lead teacher, financial manager, and center manager. Legal and ethical responsibilities of the individual and the center will be examined. Professional conduct and professional organizations will be considered. Course fee required. Spring Summer

EDU 28502 Professional Development Current trends and issues in American education utilizing materials drawn from social and cultural foundations of education. Course fee required. Spring

EDU 28601 Professional Preparation for PRAXIS III. (1 Credit Hour) This course will prepare novice teachers for their professional assessment (PRAXIS III). The final composition of the portfolio will be a major product of the course. The issue of accountability and the ability to show evidence of each of the Praxis areas will be a corner stone of the course. Course fee required. Fall

EDU 28801-03 Selected Topics in Education. (1 to 3 Credit Hours) A study of topics not included in the regular curriculum offerings. The field of study may be selected by a group of students, the instructor, and School Chair. Course fee required. On Demand

EDU 29403 Early Childhood Seminar. (3 Credit Hours) Teacher candidates enrolled in this Capstone experience will demonstrate the ability to work effectively with children of diverse ages, diverse abilities, and from diverse family systems during this full-time supervised practicum experience. For two hundred (200) clock hours students will observe and participate under the supervision of a qualified professional. In the one-hour seminar that accompanies the practicum, teacher candidates will analyze and evaluate field experiences, including supervised experience in working with parents, and supervised experience in working with interdisciplinary teams of professionals. Teacher candidates will review their philosophical positions in light of management knowledge and skills in working with staff, parents, and children. Course fee required. Spring Summer

EDU 29901-05 Directed Studies in Education (elective). (1 to 3 Credit Hours) Directed individual projects or research in some aspects of professional education. Prerequisites: Seeking teacher licensure and permission of School Chair. On Demand

ALL COURSES at the 300-400 Level in EDU Require Admission to School of Education

EDU 30202 Parents, Community, and School Communications. (2 Credit Hours) The course is designed to help teacher candidates gain knowledge and skills necessary to work and communicate in written and oral expression with parents in the school and community settings to facilitate the development, education, and socialization of students with mild/moderate disabilities from early childhood through young adults to age 21. Prerequisite: EDU 26103. Fall

EDU 30302 Multicultural Relations. (2 Credit Hours) Course explores role of teacher in diverse learning environment. Self-reflection and the impact of teacher interaction with students studied. Effective verbal, nonverbal, and media communications with students, parents, colleagues, and community considered. The Ohio Department of Education Competency-Based Model to frame Foreign Languages instruction examined. Exploration, practice/critique of helping dimensions of empathy, respect, genuineness, self-disclosure, concreteness, confrontation, and immediacy included. Problem solving/conflict resolution (non-directive listening, paraphrasing, and consensus building) practiced. Sensitivity to cultural attitudes and values explored, as are needs of inclusive students. Impact of families on individual learners examined. Total study of the multicultural climate emphasizes wholesome, enriched schools that offer students the opportunity to respect each other, appreciate differences, support each other, and engage in active, meaningful learning. Community cross-connections and teacher/parent interactions for enriching school are emphasized. Self-reflection throughout study requires teacher candidate to establish a credo for teaching that embraces all people. Portfolio processes enrich the study. Portfolio Benchmark II evaluated. Fall Spring Summer

EDU 30503 Phonics for Early Childhood. (3 Credit Hours) This course was designed to cover all phonics requirements established by the Ohio Department of Education as they relate to early childhood needs. A fifteen hour field experience in an early childhood setting at a partnership school will include observation, tutoring with classroom teacher guidance, lesson planning, teaching lessons prepared under the guidance of the course instructor and/or the classroom teacher and authentic assessment of a student’s emerging literacy. Prerequisites: Admission to Teacher Education. To be taken concurrently with EDU 31403. Fall Spring

EDU 31403 Reading Methods for Early Childhood. (3 Credit Hours) This course focuses on reading and writing processes and applications. A supervised fifteen hour field experience in an early childhood setting at a partnership school will include activities such as developing reading related materials (such as an interactive bulletin board), planning and teaching lessons with the guidance of the university instructor and the classroom teacher, and keeping a journal reflecting upon classroom observations and activities as they relate to concepts studied in class. Prerequisites: Admission to Teacher Education. To be taken concurrently with EDU 30503. Fall Spring

EDU 32103 Constructivist Practices. (3 Credit Hours) This course focuses on constructivist practice as a scientifically researched theory that explains learning as a physically and mentally active process. Consideration is given to the ways children make sense of their world. Ways that early childhood teachers can help address issues in constructive ways are explored. Fall Spring

EDU 32503 Adolescent to Young Adult Content Area Reading. (3 Credit Hours) This course stresses the role of reading, writing, talking, and listen/visual strategies as necessary and inseparable forms of communication in all content areas. The focus of instruction is to help teacher candidates teach students to be life-long learners, using communication strategies to both gather and share information. A 30 hour field experience in the teacher candidate’s concentration in an AYA setting is required. This experience will include activities such as observing, planning and teaching lessons using content area reading strategies, and keeping a journal reflecting upon classroom observations and activities as they relate to concepts studied in class. Prerequisites: Admission to Teacher Education. Spring

EDU 33203 Phonics for Middle Childhood. (3 Credit Hours) This course was designed to cover all phonics requirements established by the Ohio Department of Education as they relate to middle childhood needs. A supervised 15 hour field experience in a middle childhood setting at a partnership school will include observation, tutoring
EDU 3302 Integrating Educational Technology into the Curriculum. (2 Credit Hours) In accordance with the ISTE Standards, teacher candidates in this course will implement curriculum plans that include methods and strategies for applying technology to maximize student learning, and apply technology to facilitate a variety of effective assessment and evaluation strategies. Fall Spring

EDU 33403 Reading Methods for Middle Childhood. (3 Credit Hours) This course focuses on the Ohio Department of Education’s English Language Arts Standards as they relate to middle childhood grade-level indicators with emphasis on reading and writing processes and applications. A supervised 15 hour field experience in a middle childhood setting at a partnership school will include activities such as developing reading related materials (such as an interactive bulletin board), planning and teaching lessons with the guidance of the university instructor and the classroom teacher, and keeping a journal reflecting upon classroom observations and activities as they relate to concepts studied in class. Prerequisites: Admission to Teacher Education. To be taken concurrently with EDU 33203. Fall

EDU 34102 Behavior Management for Mild/Moderate Educational Needs. (2 Credit Hours) This course introduces the teacher candidate to principles of behavior management. Attention is drawn to the physical learning environment and laying out the school year, as well as viewing the teacher as planner, educator, and manager for the classroom. Candidates provided with strategies to effectively manage a variety of education environments with behavior intervention skills and applied behavior analysis techniques. Spring

EDU 34203 Content Area Reading for Intervention Specialists/ Multi-Age. (3 Credit Hours) This course stresses the role of reading, writing, talking, and listen/visual strategies as necessary and inseparable forms of communication in all content areas. The focus of instruction is to help teacher candidates teach students to be life-long learners, using communication strategies to both gather and share information. A 30 hour field experience in a high school intervention specialist’s “classroom” is required. Prerequisites: Admission to Teacher Education. Spring

EDU 34303 Phonics for Intervention Specialists. (3 Credit Hours) This course was designed to cover all phonics requirements established by the Ohio Department of Education as they relate to the needs of the Intervention Specialist. A supervised 15 hour field experience in a mainstreamed and/or inclusive setting at a partnership school will include observation, tutoring with classroom teacher guidance, lesson planning, teaching lessons prepared under the guidance of the course instructor and/or the classroom teacher, and authentic assessment of a student’s emerging/developing literacy. Prerequisites: Admission to Teacher Education. To be taken concurrently with EDU 34403. Fall

EDU 34403 Reading Methods for Intervention Specialists. (3 Credit Hours) This course focuses on the Ohio Department of Education’s English Language Arts Standards as they relate to grade-level indicators with emphasis on reading and writing processes and applications. A supervised 15 hour field experience in a mainstreamed or inclusive setting at a partnership school will include activities such as developing reading related materials (such as an interactive bulletin board), planning and teaching lessons with the guidance of the university instructor and the classroom teacher, and keeping a journal reflecting upon classroom observations and activities as they relate to concepts studied in class. Prerequisites: Admission to Teacher Education. To be taken concurrently with EDU 34303. Fall

EDU 35201 Technology for Special Populations. (1 Credit Hour) This course is designed to prepare the intervention specialist for meeting the technology needs of the individual special education students in their school. The course focuses on adaptation and modification of both IBM and Macintosh platforms to accommodate individuals who need graphic, sound, and environmental interface support in order to access technology. Additional course content covers the use of adaptive devices. Spring

EDU 35303 Assessment for Special Education. (3 Credit Hours) Teacher candidates will learn to use formal, informal, and authentic assessment techniques to collect student information concerning students with mild/moderate disabilities that could be used in the referral process. Classroom assessment techniques, the role of portfolios as an assessment tool, and the value of other types of authentic assessment will be addressed as methods to monitor student progress. A fifteen hour field/clinical experience is required. Prerequisites: EDU 22403 and EDU 26103. Fall

EDU 36503 Special Education Programming I. (3 Credit Hours) Teacher candidates will learn to select and develop age appropriate formal and informal assessment strategies and instruments to collect student information. Teacher candidates will learn to use the collected data to develop curricula and write content lessons that reflect a strong knowledge base of developmentally appropriate strategies and techniques that may be used in various delivery models. A thirty hour field experience is required. Prerequisites: EDU 22403 and EDU 26103. Spring

EDU 37503 Middle Childhood Integrated Language Arts Methods. (3 Credit Hours) Curricular applications of nature and needs of young adolescents (grades 4-9) studied via the Ohio Language Arts Academic Content Standards. Candidates study language acquisition and development, the place of English grammar in the curriculum, dialects and levels of usage, various purposes of language, the effective practice of culturally diverse literature as a teaching tool, oral and written discourse, purposeful writing, and the impact of print and non-print media on cultural understanding. Technology applications are an integral part of course. Multiple intelligences, learning styles, diversity enriched curricula free of stereotyping, active learning, special projects, service/community activities, and constructivist learning are applied to teaching middle childhood students. Critical thinking, problem solving, and performance skills for middle childhood learners are seriously pursued. Best practices for inclusion are requirements for instructional activities. Integrated studies across middle grades curricula are emphasized as the Ohio Academic Content Standards provide a framework for instructional planning. Language/literacy and humanities are utilized as frameworks for meaningful thematic, cross-curricular studies. Formal and informal assessment strategies explored. Required field experience takes place in a middle school setting that supports the principles of the National Middle School Association. Activities must include observation, participation, and teaching (individual students, small groups, and large groups). Teacher candidate self-reflection on best practices is required. Portfolio reflection on best practices in teaching young adolescents is required. A fifteen hour field experience is required for this course. Spring
EDU 39103 Junior Field Experience. (3 Credit Hours) During this supervised field experience, the teacher candidate will demonstrate knowledge of effective verbal and nonverbal communications, fostering active inquiry, collaboration, and supportive interaction in the classroom, as well as planning and management of instruction based on knowledge of the content area. A self-evaluation is required for each lesson taught, which offers opportunity for teacher candidates to reflect on teaching and its effects on students’ growth and learning. Teacher candidates are also required to be evaluated by the instructor while teaching. A ninety (90) hour field experience is required for this course. Admission Application required. Fall Spring

EDU 41403 Educational Psychology. (3 Credit Hours) This course explores solving common problems of teaching through the application of knowledge drawn from research in educational psychology on cognitive science, learning and memory, developmentally appropriate practices, assessment, problem-solving skills, theories of intelligence, multicultural education motivation of students, and creation of a positive learning environment. Student-centered approaches to teaching are used which reflect behaviorist and constructivist perspectives. Fall Spring

EDU 41504 Integrated Visual Arts Methods I. (4 Credit Hours) Instructional objectives, teaching strategies, evaluation, and media instruction in the visual arts for age three through age 21. A twenty hour field experience is required for this course. This experience will be supervised by the instructor of the course. Fall

EDU 41803 Physical Education Teaching Methods: Ages 3 - Grade 9. (3 Credit Hours) This course involves the presentation and application of methods, materials, and class management techniques for Physical Education instruction for students ages three - grade 9. Topics covered will include: curriculum planning for younger children, planning for instruction, presentation of information to younger children, class supervision, authentic assessment, feedback, grading, and behavior modification techniques. Relevant findings from motor learning research will be covered. A twenty hour field experience is required for this course. Fall

EDU 41903 Physical Education Teaching Methods: Grade 7 - Age 21. (3 Credit Hours) This course involves the presentation and application of methods, materials, and class management techniques for Physical Education instruction for older students, grade seven - age 21. Topics covered will include: curriculum for young adults, planning for instruction, presentation of information to classes, class supervision, assessment, feedback, grading, and behavior modification techniques. Relevant findings from motor learning research will be covered. Prerequisites: HPE 10000 and HPE 20000. Fall

EDU 42504 Integrated Visual Arts Methods II. (4 Credit Hours) Instructional objectives, teaching strategies, evaluation, and media instruction in the visual arts for age three through age 21. A twenty hour field experience is required for this course related to the particular methods course. This experience will be supervised by the instructor of the course. Note: Within the two-four hour methods courses students will have equal exposure to the three age group divisions. Spring

EDU 44403 Reading Assessment & Development. (3 Credit Hours) This course covers reading/language assessment and development from birth through age 21 using the NCATE/IRA guidelines for assessment. How to use formal, informal, and ongoing authentic assessment techniques to build a picture of the student’s strengths and weaknesses is the focus of the course. The role of assessment as a tool for guiding instruction (meeting student and curriculum needs) is emphasized. A thirty (30) hour tutoring field experience is required for this course. Fall Spring

EDU 46402 Special Education Programming II. (2 Credit Hours) This course will focus on issues and practices designed to accommodate developmental patterns of secondary level students with mild/moderate disabilities. Focus will be placed on school to work and school to community transitions. A ten hour field experience will be required in a middle school to young adult setting. Prerequisite: EDU 36503. Fall

EDU 47403 Collaboration for Special Education Programming. (3 Credit Hours) Focus of the course is on the development of oral and written collaboration and consultation skills. An in-depth examination will be conducted of collaboration/consultation and teaming approaches for working with teachers, parents, and other professional individuals within the school and community concerning the needs of students with mild/moderate disabilities. A fifteen hour field experience is required for this course. Prerequisites: EDU 35303 and EDU 36503. Fall

EDU 48104 Math Methods & Intervention Techniques for Intervention Specialists. (4 Credit Hours) A course focused on teaching children mathematics from age 3 to age 21 with emphasis placed on state and national curriculum standards, education resources, developmentally and culturally appropriate practices, technology, and assessment/evaluation. Emphasis will also be placed on examining the expectations for students and instruction at these levels while incorporating the differences in these students’ developmental levels, mathematical backgrounds, and mathematical potential. A twenty hour field experience in an appropriate classroom setting is required which may include observation, tutoring, and teaching whole classes. Prerequisite: Math 20504. Fall

EDU 48204 Math Methods & Intervention Techniques for Early Childhood. (4 Credit Hours) A course focused on teaching children mathematics from age 3 to grade 3 with emphasis placed on state and national curriculum standards, education resources, developmentally and culturally appropriate practices, technology, and assessment/evaluation. A twenty hour field experience in an appropriate classroom setting is required which may include observation, tutoring, and teaching whole classes. Prerequisite: Math 20504. Fall Spring

EDU 48304 Math Methods & Intervention Techniques for Middle Childhood. (4 Credit Hours) A course focused on teaching children mathematics in grades 4 through 9 with emphasis placed on state and national curriculum standards, education resources, developmentally and culturally appropriate practices, technology, and assessment/evaluation. A twenty hour field experience in an appropriate classroom setting is required which may include observation, tutoring, and teaching whole classes. Prerequisite: Math 20504. Spring

EDU 48404 Math Methods and Intervention Techniques for Adolescent to Young Adult. (4 Credit Hours) A course focused on teaching children mathematics in grades 7 through 12 with emphasis placed on state and national curriculum standards, education resources, developmentally and culturally appropriate practices, technology, and assessment/evaluation. A twenty hour field experience in an appropriate classroom setting is required which may include observation, tutoring, and teaching whole classes.
EDU 48504 Science Methods & Intervention Techniques for Adolescent to Young Adult. (4 Credit Hours) The Science Methods & Intervention Techniques course for teacher candidates seeking an adolescence to young adult license will emphasize the use of objectives, curriculum, planning materials, methods of teaching, and proper assessment for that age group. The review and application of the NSTA standards and the Ohio Academic Content Standards will be used. Multiple instructional strategies that will promote optimal learning for all pupils, as well as students with diverse needs and appropriate intervention techniques will be emphasized. A twenty hour field experience in an appropriate classroom setting is required. Fall

EDU 48604 Integrated Language Arts Methods for Adolescent to Young Adult. (4 Credit Hours) The Integrated Language Arts methods course for teacher candidates seeking an adolescence to young adult license will emphasize the use of objectives, curriculum, planning materials, methods of teaching, and proper assessment for that age group. The review and application of the NCTE standards and the Ohio Academic Content Standards will be used. Multiple instructional strategies that will promote optimal learning for all pupils, as well as students with diverse needs and appropriate intervention techniques will be emphasized. A thirty hour field experience in an appropriate classroom setting is required. Fall

EDU 48704 Social Studies Methods for Adolescent to Young Adult. (4 Credit Hours) The Integrated Social Studies Methods course for teacher candidates seeking an adolescence to young adult license will emphasize the use of objectives, curriculum, planning materials, methods of teaching, and proper assessment for that age group. The review and application of the NCSS standards and the Ohio Academic Content Standards will be used. Multiple instructional strategies that will promote optimal learning for all pupils, as well as students with diverse needs and appropriate intervention techniques will be emphasized. A forty hour field experience in an appropriate classroom setting is required. Fall

EDU 48801-03 Selected Topics in Education. (1 to 3 Credit Hours) Study of topics not included in the regular curriculum offerings. The field of study may be selected by a group of students or the instructor. Prerequisite: Permission of instructor and School Chair. On Demand

EDU 48901 Portfolio. (1 Credit Hour) This course requires the teacher candidate to present a completed professional portfolio developed throughout the four year professional training program to a panel of School of Education Faculty. The portfolio must mirror evidence of knowledge, skills, and dispositions developed by the Ohio State Department of Education and reflected in the Conceptual Framework of the University of Rio Grande. The ten categories in the state model are: subject matter, student learning, diversity of learners, planning instruction, instructional strategies, learning environment, communication/technology, collaboration, assessment, professional development, and student support. Additional collaboration and official documents related to teacher education/personal information/goals are showcased. Taken concurrently with Clinical Practice and EDU 33302. Portfolio Benchmark III is assessed. Fall Spring

EDU 49110 Clinical Practice in the Early Childhood Setting. (10 Credit Hours) Clinical Practice is the capstone experience for the teacher candidate. The candidate will be totally involved for twelve (12) full weeks with an experienced, highly professional teacher in appropriate classroom settings that reflect early childhood experiences for which the teacher candidate will be licensed. Successful completion of clinical practice will be assessed by how well the candidate will organize content knowledge through appropriate activities and instructional materials that assure pupil learning, create fairness, and rapport so the learning environment is optimal for student learning, use instructional time effectively so pupil learning connects with the content and leads to extended learning, and evaluate his/her own teaching for greater effectiveness and personal efficacy. Continuous supervision and assessment will be provided by the cooperating teacher, as well as assessment observations by and conferences with the university supervisor. Teacher candidate will attend university seminars during this experience. Taken concurrently with EDU 33302 and EDU 48901. Fall Spring

EDU 49210 Clinical Practice in the Middle Childhood Setting. (10 Credit Hours) Clinical practice is the capstone experience for the teacher candidate. The teacher candidate will be totally involved for twelve (12) full weeks with an experienced, highly professional teacher in an appropriate classroom setting for which the teacher candidate will be licensed. Successful completion of clinical practice will be assessed by how well the teacher candidate will organize content knowledge through appropriate activities and instructional materials that assure pupil learning, create fairness and rapport so the learning environment is optimal for student learning, use instructional time effectively so pupil learning connects with the content and leads to extended learning, and evaluate his/her own teaching for greater effectiveness and personal efficacy. Continuous supervision and assessment will be provided by the cooperating teacher, as well as assessment observations by and conferences with the university supervisor. Teacher candidates will attend university seminars during this experience. Taken concurrently with EDU 33302 and EDU 48901. Fall Spring

EDU 49310 Clinical Practice in the Adolescent to Young Adult Setting. (10 Credit Hours) Clinical practice is the capstone experience for the teacher candidate. The teacher candidate will be totally involved for twelve (12) full weeks with an experienced, highly professional teacher in an appropriate classroom setting for which the teacher candidate will be licensed. Successful completion of clinical practice will be assessed by how well the teacher candidate will organize content knowledge through appropriate activities and instructional materials that assure pupil learning, create fairness and rapport so the learning environment is optimal for student learning, use instructional time effectively so pupil learning connects with the content and leads to extended learning, and evaluate his/her own teaching for greater effectiveness and personal efficacy. Continuous supervision and assessment will be provided by the cooperating teacher, as well as assessment observations by and conferences with the university supervisor. Teacher candidates will attend university seminars during this experience. Taken concurrently with EDU 33302 and EDU 48901. Fall Spring

EDU 49410 Clinical Practice: Visual Arts. (10 Credit Hours) Clinical practice is the capstone experience for the teacher candidate. The teacher candidate will be totally involved for twelve (12) full weeks with an experienced, highly professional teacher in an appropriate classroom setting for which the teacher candidate will be licensed. Successful completion of clinical practice will be assessed by how well the teacher candidate will organize content knowledge through appropriate activities and instructional materials that assure pupil learning, create fairness and rapport so the learning environment is optimal for student learning, use instructional time effectively so pupil learning connects with the content and leads to extended learning, and evaluate his/her own teaching for greater effectiveness and personal efficacy. Continuous supervision and assessment will be provided by the cooperating teacher, as well as assessment observations by and conferences with the university supervisor. Teacher candidates will attend university seminars during this experience. Taken concurrently with EDU 33302 and EDU 48901. Fall Spring
EDU 49610 Clinical Practice: Physical Education. (10 Credit Hours) Clinical practice is the capstone experience for the teacher candidate. The teacher candidate will be totally involved for twelve (12) full weeks with an experienced, highly professional teacher in an appropriate classroom setting for which the teacher candidate will be licensed. Successful completion of clinical practice will be assessed by how well the teacher candidate will organize content knowledge through appropriate activities and instructional materials that assure pupil learning, create fairness and rapport so the learning environment is optimal for student learning, use instructional time effectively so pupil learning connects with the content and leads to extended learning, and evaluate his/her own teaching for greater effectiveness and personal efficacy. Continuous supervision and assessment will be provided by the cooperating teacher, as well as assessment observations by and conferences with the university supervisor. Teacher candidates will attend university seminars during this experience. Taken concurrently with EDU 33302 and EDU 48901. Fall Spring

EDU 49710 Clinical Practice: Music. (10 Credit Hours) Clinical practice is the capstone experience for the teacher candidate. The teacher candidate will be totally involved for twelve (12) full weeks with an experienced, highly professional teacher in an appropriate classroom setting for which the teacher candidate will be licensed. Successful completion of clinical practice will be assessed by how well the teacher candidate will organize content knowledge through appropriate activities and instructional materials that assure pupil learning, create fairness and rapport so the learning environment is optimal for student learning, use instructional time effectively so pupil learning connects with the content and leads to extended learning, and evaluate his/her own teaching for greater effectiveness and personal efficacy. Continuous supervision and assessment will be provided by the cooperating teacher, as well as assessment observations by and conferences with the university supervisor. Teacher candidates will attend university seminars during this experience. Taken concurrently with EDU 33302 and EDU 48901. Fall Spring

EDU 49810 Clinical Practice: Intervention Specialist Mild/Moderate. (10 Credit Hours) Clinical practice is the capstone experience for the Intervention Specialist Mild/Moderate program. A full time assignment places teacher candidate in an approved school under the leadership of an approved cooperating teacher in a public school setting that services students identified with mild/moderate disabilities. The teacher candidate is required to attend seminar sessions and to participate in meetings with the college supervisor. Placement will be coordinated by the Student Teacher Coordinator with input from the special education faculty. Evaluations will be completed by the cooperating teacher and the college supervisor. Teacher candidates will be placed in the Option choice not selected for EDU 39103. Taken concurrently with EDU 33302 and EDU 48901. Fall Spring

EDU 49901-05 Directed Studies in Education (elective). (1 to 5 Credit Hours) Directed individual projects or research in some aspects of professional education. Prerequisites: Senior class standing, seeking teacher licensure, and permission of School Chair. On Demand

ELE - Electronic Technology

ELE 10104 Basic Electricity/Electronics. (4 Credit Hours) An introduction to the basic principles of electricity and electronics. Topics include units and notation, current, voltage, resistance, Ohm’s Law, power, energy, circuit protection, wire sizing, series and parallel circuits, capacitance, inductance, impedance, alternating current, three-phase electrical systems, transformers, single-phase motors, and three-phase motors. Three hours lecture, two hours lab. Prerequisite/Corequisite: TEC 11704 or MTH 11403. Course fee required. Fall

ELE 10303 Microcomputer Hardware. (3 Credit Hours) A study of Intel based microcomputers. Topics include: history, microprocessor performance, memory architecture, I/O mapping, interrupts, motherboard design, bus architecture, power supplies, logical troubleshooting, memory, floppy drives, sound cards, video standards, networking security standards and printer technologies. This course is designed to introduce students to hardware and operating systems used in microcomputers and prepare them to pass the CompTIA A+ certification examination. Two hours lecture, two hours lab. Course fee required. Spring

ELE 11303 Introduction to Networking. (3 Credit Hours) Introduction to networking concepts and preparation to take the CompTIA Networking+ certification. Topics include: network topologies, protocols and services, OSI model, network components, access methods, remote connectivity and network media. Four hours lecture, four hours lab. This is an eight-week course. Course fee required. Fall

ELE 12303 Local Area Networks. (3 Credit Hours) A study of hardware and software used in local area networks. Topics include: network topology, base band networks, broad band networks, transmission medium, protocol, security, and error detection and correction. Four hours lecture, four hours lab. This is an eight-week course. Course fee required. Fall

ELE 14004 Electronic Devices. (4 Credit Hours) A study of: semiconductor theory, diodes, AC rectification, bipolar transistors, transistor biasing, small signal amplifiers, field effect transistors, decibels, frequency response, bode plots, integrated circuits, differential amplifiers, operational amplifiers, negative feedback, positive feedback, active filters, oscillators, and voltage regulation. Three hours lecture, two hours lab. Course fee required. Prerequisite: ELE 11104. Spring

ELE 14303 TCP/IP. (3 Credit Hours) An introduction to the TCP/IP protocol suite. Topics include: TCP/IP applications, TCP/IP structure and addressing, and TCP/IP protocols. Four hours lecture, four hours lab. This in an eight-week course. Course fee required. Spring

ELE 15303 Network Servers. (3 Credit Hours) A course designed to introduce students to the issues in implementing, operating, and maintaining commercial network servers. Four hours lecture, four hours lab. This is an eight-week course. Course fee required. Spring

ELE 21103 Programmable Controllers I. (3 Credit Hours) A study of the operational characteristics of commercially available programmable logic controllers. Major emphasis will include conversion of machine control logic diagrams to PLC programs. Topics include: types of input/output modules, system configuration, peripheral devices, timers, counters, sequencers, operations, and logic operations. Two hours lecture, two hours lab. Course fee required. Co-requisite: ELE 25003. Fall
ELE 21203 Programmable Controllers II. (3 Credit Hours)
Continuation of Programmable Controllers I. Topics include: program control, data manipulation instructions, mathematical instructions, sequencer instructions, and networking. Two hours lecture, two hours lab. Course fee required. Prerequisite: ELE 21103. Spring

ELE 21303 Computer Network Security. (3 Credit Hours)
A course designed to introduce students to network security concepts and prepare them for the CompTIA Security+ certification examination. Topics include: measuring and weighing risk, infrastructure and connectivity, threats and vulnerabilities, access control and identity management, educating and protecting the user, operating systems and application security, cryptographic basics, cryptographic implementation, physical and hardware-based security, security and vulnerability in the network, wireless networking security, disaster recovery and incident response, security related policies and procedures, security administration. Four hours lecture, four hours lab. This is an eight-week course. Course fee required. Fall

ELE 23303 Wireless Computer Networks. (3 Credit Hours)
A course designed to introduce students to wireless computer networking terms and concepts. Topics include: Radio Frequency Fundamentals, Spread Spectrum Technologies, Wireless LAN Infrastructure Devices, Antennas, Wireless LAN Organizations and Standards, 802.11 Network Architecture, Troubleshooting Wireless LANs, Wireless LAN Security, Site Survey Fundamentals. Four hours lecture, for hours lab. This is an eight-week course. Course fee required. Spring

ELE 24303 Network Design. (3 Credit Hours) An introduction to network analysis and design. Topics include: corporate computing, network life cycle, requirement analysis, network traffic analysis, logical network design, physical network design, implementation, and network baselining. Four hours lecture, four hours lab. This is an eight-week course. Course fee required. Spring

ELE 25003 Industrial Controls. (3 Credit Hours) A study of the devices used in the control of industrial machinery. Topics include: switches, control transformers, relays, contactors, solenoids, limit switches, proximity switches, pressure switches and transducers, temperature switches and transducers, timers, counters, motor starters, ladder control diagrams, bar sequence charts, and power factor correction. Two hours lecture, two hours lab. Course fee required. Prerequisite: ELE 10104. Fall

ELE 25303 Server Virtualization. (3 Credit Hours) A course designed to introduce student to server virtualization concepts. Topics include: comparing virtualization technologies, Vmware server, Vmware ESXi, Citrix XenServer, Microsoft Virtual PC, Microsoft Hyper-V, VirtualBox, sever virtualization in action, desktop virtualization in action, network and storage virtualization, planning, deployment, postproduction. Four hours lecture, four hours lab. Course fee required. Prerequisite: ELE 25003. Spring

ELE 26004 Automatic Identification. (4 Credit Hours) This course introduces six of the basic AUTO ID technologies: bar code symbology, optical character recognition, voice recognition, vision systems, RFID, and magnetic stripe. Topics include: bar code symbology, wands, keyboard wedges, bar code printers, scanners, verifiers, optical character recognition standards, recognition algorithms, page readers, transaction readers, speaker dependent and speaker independent systems, discrete word systems, connected word systems, continuous speech systems, magnetic stripe, radio frequency identification, vision recognition systems, magnetic ink character recognition, data encoding techniques, edge recognition, template match, lighting, analog to digital conversion, vidicom and CCD camera characteristics, radio frequency transmission and reception, and active tags and passive tags. Three hours lecture, two hours lab. Course fee required. Fall

ELE 27003 Robotics. (3 Credit Hours) An introduction to robotic systems. Topics include: robot terminology, coordinate systems, work envelope considerations, manipulator drive systems, programming, servo system control, gears and linkage, interfacing, end effectors, sensors, and robotic applications. Two hours lecture, two hours lab. Course fee required. Prerequisite: ELE 25003. Spring

ELE 28204 Electronic Maintenance. (4 Credit Hours) A study of troubleshooting procedures used in the repair of electronic equipment. Special emphasis will be placed on the techniques and test equipment used in troubleshooting industrial control systems. Two hours lecture, four hours lab. Course fee required. Prerequisite: ELE 22003. Spring

ELE 28801-05 Selected Topics in Electronic Technology. (1 to 5 Credit Hours) This course is a study of Electronics topics not included in other course offerings. The format for this course may be special projects, readings, a scheduled class, or a seminar. Course fee required. On Demand

ELE 29001-04 Cooperative Education Experience. (1 to 4 Credit Hours) Workplace experience gained through placement into a work environment. Coordination, supervision, and evaluation conducted by a School of Engineering Technologies faculty member and participating company. May be repeated once. On Demand

ELE 29901-03 Directed Studies in Electronic Technology. (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in electronic technology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing, the completion of at least six (6) hours in ELE courses, and permission of the instructor. Course fee may be required. On Demand

EMS – Emergency Medical Services

EMS 10103 EMT Basic Theory and Current Trends in EMS. (3 Credit Hours) This EMT-B course is based on guidelines set by the United States Department of Transportation (DOT). The curriculum prepares students to take the appropriate national registry exam and become certified both in Ohio and nationally. Students will learn the role of the EMT-B, the EMS system, safety and well-being, legal and ethical issues, basic anatomy and physiology, techniques of safe lifting and moving of patients, airway management, patient assessment, medical emergencies, trauma, infants and children, ambulance operations, multiple casualty incidents and hazardous materials incidents. Fall, Spring, Summer

EMS 10203 EMT-Basic Skills Lab. (3 Credit Hours) This EMT-B course is based on guidelines set by the United States Department of Transportation (DOT). The curriculum prepares students to take the appropriate national registry exam and become certified both in Ohio and nationally. Students will learn the practical application of skills required of the EMT-Basic, Body Substance Isolation and Personal Protective Equipment, CPR/AED, the use of equipment for extremity and spinal immobilization, adjuncts for airway control, use of equipment for oxygen therapy, techniques of bleeding control, proper lifting and moving of patients and proper care of medical and trauma patients. Students take this class concurrently with EMS 10103. Fall, Spring, Summer
EMS 18803 EMT-Basic Skills Lab 2. (3 Credit Hours) This EMT-Basic Skills Lab is a companion to the Basic Skills Lab. Students take this class concurrently with EMS 10103. Fall, Spring, Summer

ENG - English

ENG 10104 Introduction to Writing (4 Credit Hours). A competency-based, personalized course with emphasis on fundamental skills of English grammar and usage and with writing primarily focused on the paragraph. Three hours of class instruction in addition to an hour of workshop weekly. Admission to the course determined by placement testing. Course fee required. Fall Spring Summer

ENG 10204 Reading and Learning Strategies (4 Credit Hours). A competency-based, personalized course concentrating on reading, vocabulary development, content-specific skills, and learning strategies. Three hours of class instruction in addition to an hour of workshop weekly. Admission to the course determined by placement testing. Course fee required. Fall Spring Summer

ENG 11103 (TM) Composition I (3 Credit Hours). A study of the writing process covering example, description, narration, process analysis, comparison and contrast, classification, and definition. Prerequisites: ENG 10104 and ENG 10204, both with a C- or better, for students assigned to those courses as a result of placement testing. Fall Spring Summer

ENG 11203 (TM) Composition II (3 Credit Hours). Continued study of the writing process, focusing on cause and effect and on argument. Research writing is studied, and the different forms of documentation are introduced. Required: short papers and a longer, properly documented research paper. Prerequisite: ENG 11103 with a C- or better. Fall Spring

ENG 20001 Minor Portfolio (1 Credit Hour). A review of the English Minor Portfolio requirements and the completion and submission of the Minor Portfolio. Prerequisite: ENG 11203 with a grade of C- or better. Must be taken in final spring semester of English coursework.

ENG 21403 Business and Technical Writing (3 Credit Hours). A study of the kinds of writing required in the business and technical worlds such as memos, letters, proposals, feasibility studies, progress reports, recommendations, and technical descriptions and instructions with emphasis on letters and short reports. Prerequisite: ENG 11103 with a grade of C- or better. Fall Spring

ENG 22103 Creative Writing (3 Credit Hours). Introduction to the principles of creative writing aimed at developing the creative process with practice in writing original, creative non-fiction, short stories, poetry, screenwriting, and/or drama. Possible markets for creative writing will be explored. Students will practice individual and collaborative writing in various genres in a workshop atmosphere. Prerequisite: ENG 11103 with a grade of C- or better. Fall Spring

ENG 24103 (TM) The Literary Imagination (3 Credit Hours). A critical survey of major themes in American, English, and world literature. Themes such as the individual in society, love and death, innocence and experience, and freedom and responsibility will be considered. Emphasis will be given to ways of responding to the different forms of literature. Students will discuss results and present them in analytical writing. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. Fall Spring

ENG 24603 Children’s Literature (3 Credit Hours). A study of literature of interest to children in the pre-school and elementary grades, including oral presentations and book selection. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. Fall Spring Summer

ENG 24703 Adolescent and Young Adult Literature (3 Credit Hours). A study of literature of interest to students in middle and secondary schools, including classroom presentation and book selection. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. Fall Spring Summer

ENG 24803 Comparative World Literature (3 Credit Hours). Focuses on the reading, analysis, and discussion of representative translated major works and writers, periods, and literary movements in world literature from the ancient world to the modern period with an emphasis on aesthetic, historic, and cultural ideas and values. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. Fall 2012

ENG 25103 American Literature to the Civil War (3 Credit Hours). Major representative ideas, genres, and authors in the development of American literature from the pre-colonial period to the Civil War. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. Fall Spring Summer

ENG 25203 American Literature since the Civil War (3 Credit Hours). Major representative ideas, genres, and authors in realism, naturalism, and other movements from the Civil War to the present. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. Fall Spring Summer

ENG 25204 American Literature since the Civil War (3 Credit Hours). A survey of selected literary forms, authors, and works of the Medieval, Renaissance, and Neo-classical periods in British literature. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. Fall Spring Summer

ENG 26103 British Literature to the Romantic Era (3 Credit Hours). A survey of selected literary forms, authors, and works of the Medieval, Renaissance, and Neo-classical periods in British literature. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. Fall Spring Summer

ENG 26203 British Literature since the Romantic Era (3 Credit Hours). A survey of selected literary forms, authors, and works of the Romantic, Victorian, and modern periods in British literature. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. Fall Spring Summer

ENG 26503/36503 Survey of Welsh Literature (3 Credit Hours). Overview of Welsh literature from the earliest times to the present. The course will show how the Welsh tradition is both related to, and separate from, English literature. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. On Demand

ENG 26603/36603 The Welsh Arthurian Tradition (3 Credit Hours). The mythic/legendary material in the Mabinogion and other Arthurian stories associated with the Four Branches, the work of Chretien de Troyes and the Welsh romances associated with him, the early prose narrative Mariadoc, and selections from medieval Welsh poetry. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. On Demand

ENG 26703/36703 Modern Welsh Literature (3 Credit Hours). Consideration of Welsh poetry and prose of the modern period, mostly since World War II. Prerequisite: ENG 11103 and ENG 11203 with a grade of C- or better. On Demand

ENG 29901-05 Directed Studies in English (1 to 5 Credit Hours). Independent study and research on a topic in English language, literature, or writing of special interest to the student, under the supervision of an English faculty member. Prerequisites: ENG 11103 and ENG 11203 with a grade of C- or better. Class may be taken concurrently with ENG 11203. On Demand
ENG 33103 History of the English Language (3 Credit Hours). A study of language acquisition and development. Principles of phonology, structure, linguistic change, and vocabulary accretion in Old, Middle, and Modern English. Prerequisite: ENG 11203 with a grade of C- or better. Fall

ENG 33303 Linguistics and Grammar (3 Credit Hours). A study of selected issues in language acquisition and development, principles of phonology, structure, linguistic change, and meanings of language. This study is accompanied with an examination of the English language in terms of its structure and its application for communication purposes in both written and spoken discourses. Analysis and discussions of the application of English grammar in learning and teaching will be included. Prerequisite: ENG 11203 with a grade of C- or better. Spring 2012

ENG 36403 Shakespeare: From Script to Stage to Screen (3 Credit Hours). A study of Shakespeare's dramatic works with special emphasis on the performance features on stage and in film. Prerequisite: ENG 11203 with a grade of C- or better. Spring

ENG 37103 Literature and Media (3 Credit Hours). An exploration of ways in which literature and visual culture, particularly the cinematic, reflect the complexities of human existence and meaning and work individually to influence other media. The structures and styles, themes and motifs, and philosophical preoccupations of high-modern and post-modern literary expressions and traditions, films, and some other media will be examined to provide an acquaintance with, and relationship of, the authors, works, and artistic and philosophical concepts portrayed. Prerequisite: ENG 11203 with a grade of C- or better. Fall 2011

ENG 38103 Professional Writing (3 Credit Hours). An in-depth study, practice, and workshop in written communication within a professional context in the areas of creative writing, professional writing, and multimedia writing. Prerequisite: ENG 11203 with a grade of C- or better. Spring 2012

ENG 38803 Selected Topics in English (3 Credit Hours). Special topics in literature or creative writing. May be repeated for credit with a different topic. Prerequisite: ENG 11203 with a grade of C- or better. Fall

ENG 44103 Literary Criticism (3 Credit Hours). An intensive study of the ways of responding to literature. Practical and theoretical aspects of literary criticism. Prerequisite: ENG 11203 with a grade of C- or better. On Demand

ENG 44303 Genre Studies (3 Credit Hours). Advanced study of a particular literary form; for example, absurdist drama, the novella or short novel, or gothic fiction. May be repeated for credit with a different topic. Prerequisite: ENG 11203 with a grade of C- or better. Fall 2012

ENG 44603 Literary Periods (3 Credit Hours). A focused study of literary works of a specific movement or group from a selected literary period with an emphasis upon authors, works and contexts. May be repeated for credit with a different topic. Prerequisite: ENG 11203 with a grade of C- or better. Spring 2012

ENG 45103 Major Author(s) (3 Credit Hours). An in-depth study of the works of a significant author, pair of authors, or small group with an exploration of the writers’ contexts, approaches, and contributions. May be repeated for credit with different authors. Prerequisite: ENG 11203 with a grade of C- or better. Spring

ENG 47001-03 Literary Magazine Practicum (1 to 3 Credit Hours). An introduction to literary-magazine production culminating in publication of a literary magazine with emphasis given to editorial perspective; audience evaluation; selecting, editing, and arranging copy; proofreading; designing magazine format; and marketing a literary magazine. May be repeated for the maximum credit hours. Prerequisite: ENG 11203 with a grade of C- or better. On Demand

ENG 49003 Literature and Writing Seminar (3 Credit Hours). A review of career options and strategies for English majors, development and completion of a writing project to be included in the Major Portfolio, completion of a comprehensive major exam, and completion and submission of the Major Portfolio. Prerequisites: ENG 11203 with a grade of C- or better. Must be taken in final spring semester of English coursework. Spring

ENG 49901-05 Directed Studies in English (1 to 5 Credit Hours). Independent study and research on a topic in English language, literature, or writing of special interest to the student, under the supervision of an English faculty member. Prerequisites: ENG 11203 with a grade of C- or better. On Demand

ENT - Entrepreneurship

ENT 20403 Fundamentals of Entrepreneurship. (3 Credit Hours) Starting and managing one’s own business: developing a viable concept, organizing the enterprise, market and financial planning, and controlling the organization. This course was previously listed as MKT 20403. This course was previously listed as MKT 20403. Course fee required On Demand

ENT 24403 Small Business Management. (3 Credit Hours) Practical methods of organizing, financing, and operating the small-scale enterprise. Prerequisite: BM 20403. This course was previously listed as BM 24403. Course fee required Fall

ENT 34403 Small Business Consulting. (3 Credit Hours) Provides the student with the opportunity to apply knowledge learned in the classroom to real business situations. Open to undergraduate majors in the School of Business with the approval of the School Chair. Prerequisites: BM 20403, FIN 20403, and MKT 21403. This course was previously listed as BM 34403. On Demand

ENT 44403 Small Business Management. (3 Credit Hours) Practical methods of organizing, financing, and operating the small-scale enterprise. Prerequisite: BM 20403. This course was previously listed as BM 24403. Additional project work will be done in ENT 44403 Fall

ESS – English Support Services

ESS 11103 Conversation and Listening (3 Credit Hours). This course emphasizes speaking with the correct emphasis and rhythm, understanding common American English idioms, and following complex directions. It gives the students intensive practice speaking and listening to English. Fall

ESS 11203 Listening and Reporting (3 Credit Hours). This course is designed to bring students to the point that they can take full part in class discussions. It gives them practice in asking and answering questions in class. Students will listen to and view various audio and video materials. Spring
FIN 20403 Financial Management. (3 Credit Hours) Provides the interpretation and application of accounting, financial concepts, and reimbursement systems for health care facilities. Students will have an introduction to strategic financial planning for health care organizations. Prerequisite: FIN 20403. Fall

FIN 38801-03 Selected Topics in Finance. (1 to 3 Credit Hours) Selected topics relevant to finance. On Demand

FIN 41403 International Finance. (3 Credit Hours) Balance of payments, exchange rates, international currency markets, foreign exchange risk management, and foreign investment. Prerequisite: FIN 30403. On Demand

FIN 43403 Problems in Finance. (3 Credit Hours) Case problems in finance are analyzed. Problem solving from the viewpoint of the financial manager in capital budgeting, financing, and all major areas of finance. Prerequisite: FIN 20403/30403. On Demand

FIN 49102 Internship/Experience in Financial Economics. (2 Credit Hours) On the job training of at least 100 meaningful hours or 12/13 working days after approval of the major Professor, Faculty Internship Coordinator, School Chair, and an approved organization, which is expected to give the intern a variety of new and meaningful learning experiences directly related to the Business Administration major and Finance. The intern is expected to grow, work hard, and make a professional contribution to the organization. Fall Spring

FIN 49901-03 Directed Studies in Finance. (1 to 3 Credit Hours) Individual research and work for the advanced student related to major field of study. Prerequisite: Permission of instructor and School Chair. On Demand

FPA - Fine and Performing Arts

FPA 10503 (TM) Fine Arts. This course is a study of the growth and development of Western Culture as defined in Fine Arts: Music, Painting, Dance, Theatre, Sculpture, and Architecture. Course fee required. Fall Spring

FW - Fine Woodworking

FW 11104 Fundamentals of Woodworking (4 Credit Hours). This course covers the basic skills of woodworking, including turning and sharpening essential hand tools, layout, and cutting and fitting of basic joints. Topics also include the nature of wood, wood/moisture relationship, and sawing and drying lumber. Each student will cut sample dovetail joints and build a small table. This class must be taken concurrently with FW 11204. Two hours lecture, six hours lab. Course fee required. Fall

FW 11204 Mastering Woodworking Machines (4 Credit Hours). This course covers the safe and efficient use of woodworking machinery. Each student will learn the steps involved in using a cutting list and milling stock to size. Other topics include cutting mortise-and-tenon joints with machine methods. Each student will make sample joints and construct a small table. This course must be taken concurrently with FW 11104. Two hours lecture, six hours lab. Course fee required. Fall

FW 11404 Cutting Shapes and Profiles (4 Credit Hours). This course focuses on using the bandsaw, router, shaper, and various hand tools to create moldings and curved shapes such as table legs. Other topics include curved moldings and complex moldings. Each student will construct a project using techniques presented in class. This course must be taken concurrently with FW 11504. Two hours lecture, six hours lab. Course fee required. Spring

FW 11504 Wood Finishing. (4 Credit Hours) This course covers the different types of finishes, their characteristics, and application methods. Topics also include: stains, dyes, and other methods of
coloring and enhancing wood. Each student will learn techniques as he/she finishes sample blocks in preparation for finishing his/her project. Lab time is provided for students to work on their on-going projects. Two hours lecture, six hours lab. Course fee required.

**FW 211404 Furniture Casework. (4 Credit Hours)** This course covers the design, joinery, and construction methods used in building solid wood casework such as chests, desks, and cabinets. Topics also include: constructing and fitting doors and drawers, as well as, installation of locks, hinges, and other hardware. Lab time is provided for each student to construct an example of casework. This course must be taken concurrently with FW 21304. Two hours lecture, six hours lab. Course fee required. Fall

**FW 21304 Turning and Carving (4 Credit Hours).** This course covers the techniques used for creating turned and carved furniture embellishments such as finials, legs, and shells. Lab time is provided for students to develop their turning and carving skills, as well as to work on their on-going furniture project. Two hours lecture, six hours lab. This course must be taken concurrently with FW 21304. Course fee required. Spring

**FW 21404 Woodshop Jigs and Fixtures (4 Credit Hours).** This course will focus on designing jigs and fixtures for efficient production of multiple furniture parts. Lab time will be provided for students to develop jig designs, as well as to work on their on-going furniture projects. This course must be taken concurrently with FW 21304. Two hours lecture, six hours lab. Course fee required. Spring

**FW 21504 Wood Joinery (4 Credit Hours).** This course focuses on designing, cutting, and fitting precise joinery. Emphasis is placed upon dovetail and mortise-and-tenon joints. Each student will be required to cut sample joints, as well as to construct a furniture project. This course must be taken concurrently with FW 21104. Two hours lecture, six hours lab. Course fee required. Fall

**FW 21604 Fine Woodworking Furniture Project (4 Credit Hours).** This course focuses on the completion of the final woodworking project the slant top desk. Topics include: construction of the desk interior, fitting of bread board ends, installation of hardware and applying a multiple step finish. Sufficient lab time will be allowed to complete the desk. Course fee required. Prerequisite: Certificate students or students that have taken prior woodworking classes. On Demand. Instructor permission.

**FW 28801-05 Selected Topics in Fine Woodworking Technology (1 to 5 Credit Hours).** A hands-on course covering a topic not included in other coursework. Prerequisite: Permission of the instructor. Course fee may be required. On Demand

**FW 29001-04 Cooperative Education Experience (1 to 4 Credit Hours),** Workplace experience gained through placement into a work environment. Coordination, supervision, and evaluation conducted by a School of Engineering Technologies faculty member and participating company. May be repeated once. On Demand

**FW 29901-03 Directed Studies in Fine Woodworking (1 to 3 Credit Hours).** Independent study and/or research under the supervision of an instructor in fine woodworking. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing, the completion of at least six (6) hours in FW courses, and permission of the instructor. Course fee may be required. On Demand

**FW 49901-05 Directed Studies in Fine Woodworking (1 to 5 Credit Hours).** Independent study and/or research under the supervision of an instructor in fine woodworking. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Junior or senior standing, the completion of at least the two-year degree in fine woodworking, and permission of the instructor. On Demand

**HIS - History**

**HIS 12103 American History I (To 1877). (3 Credit Hours)** Political, diplomatic, social, and economic development of Anglo-America through the colonial period and early national era of the United States to Reconstruction. Fall Spring

**HIS 12203 (TM) American History II (From 1877), (3 Credit Hours)** Political, diplomatic, social, and economic development of the United States from Reconstruction through the present. Fall Spring

**HIS 1303 (TM) World Civilization I. (3 Credit Hours)** Survey of intellectual, religious, philosophical, political, economic, scientific, and social achievements of World Civilizations from the ancient world to the emergence of new world patterns at the beginning of the sixteenth century. This course includes the Americas, Europe, Africa, and Asia. Fall Spring

**HIS 13203 (TM) World Civilization II. (3 Credit Hours)** Survey of intellectual, religious, cultural, philosophical, political, economic, scientific, and social achievements of World Civilizations from the sixteenth century to present. This course includes the Americas, Europe, Africa, and Asia. Spring Fall

**HIS 22203 The American Experience in Global Perspective.** A brief comprehensive survey of the American experience with emphasis on topics or events that can be viewed from a world perspective such as the Age of Discovery, Revolution, Slavery, Immigration, Imperialism, and World Wars. Spring 2013

**HIS 22403 The Westward Movement. (3 Credit Hours)** The westward progression from Roanoke Island to California with emphasis on the first colonist, the fur trader, the miner, the cowboy, the native Indian (the first and last American), the “Sod-buster”, and their parts in western society. Spring

**HIS 22503 History of Ohio. (3 Credit Hours)** A survey of Ohio’s history from the pre-Columbian mound builders through the present with an emphasis on the geographic, governmental, cultural, and economic aspects of Ohio’s history. Fall

**Non-Western Histories.** Surveys and studies in the history of various non-western countries, as specified. HIS 34803 will be used to specify nations or areas not listed separately, and may be repeated with different topics. *At least one course will be offered each semester. The most frequently offered courses are listed below:*

**HIS 24103 Latin America**

**HIS 34203 Africa**

**HIS 34303 The Middle East**
HIS 34503 Far East

HIS 34603 Russia

HIS 28801-03 Selected Topics in History. (1 to 3 Credit Hours) Topics to be announced in the schedule. On Demand

HIS 29901-03 Directed Studies in History. (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in history. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing and the completion of at least six (6) credit hours in the discipline, as well as sponsorship by an instructor and approval of the Dean of the College of Arts and Sciences. On Demand

HIS 31203 American Cultural History I. (3 Credit Hours) The intellectual, scientific, aesthetic, and religious development of American Culture from the colonial period to the middle of the nineteenth century. Fall

HIS 32203 American Cultural History II. (3 Credit Hours) The intellectual, scientific, aesthetic, and religious development of American culture from the middle of the nineteenth century to the present. Spring

HIS 35103 British History I. (3 Credit Hours) The study of Britain from medieval times to the fifteenth century. Course covers cultural, political, economic, and social developments in Britain. Stress is placed on the relationship of government and society in the four nations that make up the British Isles, which include England, Wales, Scotland, and Ireland. On Demand

HIS 35203 British History II. (3 Credit Hours) The study of Britain from the sixteenth century to the present. Course covers cultural, political, economic, and social developments in modern Britain. Stress is placed on the relationship of government and society in the four nations that make up the British Isles, which include England, Wales, Scotland, and Ireland. On Demand

Topical Studies in History. Topics from local through world histories. Topics are announced in the schedule. Prerequisite: Nine (9) credit hours in history or permission of instructor. At least one topical studies course is offered each semester. Specific topics are added to these general categories (listed below) when a course is listed on a class schedule. On Demand

HIS 41803 Europe

HIS 42803 United States

HIS 43703 History and Historians Seminar. (3 Credit Hours) An examination of historians and historiographic problems with an emphasis on research methodology and changing attitudes towards the discipline of historical research. Open to seniors majoring in history or with permission of the instructor. Prerequisite: ENG 11203. Fall

HIS 48801-03 Selected Topics in History. (1 to 3 Credit Hours) Topics to be announced in the schedule. On Demand

HIS 49901-03 Directed Studies in History. (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in History. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Junior or Senior standing and the completion of at least twelve (12) hours in the discipline, as well as sponsorship by an instructor and approval of the Dean of the College of Arts and Sciences. On Demand

HPE - Health and Physical Education

HPE 10000 Field Experience: College I. (0 Credit Hours) During this course, the student will assist in teaching the University level course HPE 10101. This is a supervised, twenty (20) clock-hour field experience. Fall Spring

HPE 10101 Human Wellness and Physical Fitness. (1 Credit Hour) This course presents scientific information concerning the need for physical activity. It offers the opportunity for the assessment of personal fitness and presents various approaches to fitness, including an introduction to a variety of lifetime sport activities. Course fee required. Fall Spring Summer

HPE 10202 Introduction to Health Education. (2 Credit Hours) This course is an introduction to professional career opportunities in personal health, community health, and school health education. Content will cover the historical development, philosophy, and resource knowledge in each area. A thorough investigation of professional career opportunities will be included. Fall

HPE 10403 Introduction to Sport and Exercise Professions. (3 Credit Hours) This course is an introduction to the fields of commercial fitness, school health, and physical education. It includes a brief overview of the historical development and the general body of knowledge in each field. It also includes a thorough investigation of the professional career opportunities in each area. Fall Spring

HPE 11101 Archery. (1 Credit Hour) This is an activity course that teaches the basic skills of archery. Course fee required. Fall Spring

HPE 11201 Beginning Swimming. (1 Credit Hour) This is an activity course that teaches the basic skills in swimming. Fall Spring

HPE 11301 Intermediate Swimming. (1 Credit Hour) This is an activity course that teaches intermediate skills in swimming. Spring

HPE 11401 Lifeguard Training. (1 Credit Hour) This is an activity course that teaches the basic skills in lifeguard training. Course fee required. Spring

HPE 11601 Golf. (1 Credit Hour) This is an activity course that teaches the basic skills of golf. Course fee required. Fall Spring

HPE 11701 Swimming for Physical Fitness. (1 Credit Hour) This course is designed to provide students who can already swim with an opportunity to improve their aerobic (cardiovascular) fitness through distance swimming exercise. Lap swimming will be the major activity in this course. Knowledge and skills related to personal water safety will be covered. Fall Spring

HPE 11901 Folk and Social Dance. (1 Credit Hour) This is an activity course that teaches the basic skills of folk and social dance. Course fee required. Spring
HPE 12401 Badminton. (1 Credit Hour) This is an activity course that teaches the basic skills of badminton. Course fee required. Fall Spring

HPE 12501 Gymnastics I. (1 Credit Hour) This is an activity course that teaches the basic skills of gymnastics. Spring

HPE 13101 Conditioning for Physical Fitness. (1 Credit Hour) This course is an activity course that teaches basic conditioning for physical fitness. On Demand

HPE 13301 Racquetball. (1 Credit Hour) This is an activity course that teaches the basic skills of racquetball. Course fee required. Fall Spring

HPE 13401 Weight Training. (1 Credit Hour) This is an activity course that teaches the basic skills of weight training. Spring

HPE 15103 Team Sports I. (3 Credit Hours) This course is an activity course that provides an introduction to the knowledge and skills in: soccer, volleyball, and touch football. Course fee required. Fall

HPE 16103 Team Sports II. (3 Credit Hours) This course is an activity course that provides an introduction to the knowledge and skills in: basketball, softball, and track/field. Course fee required. Spring

HPE 16203 Nutrition. (3 Credit Hours) This course is a study of the utilization of food for the body, food as a source of energy, and the nutrients required for life processes. Emphasis will be placed on identifying the composition of foods and the effect of foods on growth and maintenance of good health. Students are required to keep a daily food diary to heighten their awareness of their eating habits. The students will be able to identify nutrients through reading food labels and be able to use the food pyramid to plan healthy meals. Fall Spring Summer

HPE 19801 Walking for Physical Fitness. (1 Credit Hour) This course is designed to provide students with an opportunity to learn lifetime exercise skills, and improve their aerobic fitness through walking exercise. Students will receive instruction in pace and walking techniques. Fall Spring Summer

HPE 20000 Field Experience: College II. (0 Credit Hours) During this course, the student will assist in teaching one University level Physical Fitness or sport activity course. This is a supervised, twenty (20) clock-hour field experience. Fall Spring

HPE 20103 Physical Education Class Activities, Ages 3 – Grade 9. (3 Credit Hours) In this course, instruction will focus on Physical Education activities that are appropriate for children of ages 3 – grade 9. Topics include: introductory gymnastic skills, basic non-locomotor and locomotor skills, rhythmic activities, dance, games of low organization, lead-up games, and physical fitness activities. Course fee required. Fall Spring

HPE 21403 Personal & Community Health. (3 Credit Hours) This course is designed to clarify personal needs and values in light of current research and questions in the areas of mental and emotional health, the potential and limitations of drugs, the functioning of the human body, disease and trends in current medical practice, and nutrition. Exercise and the wellness approach are emphasized. Small groups will be utilized for discussion and study will be done through audio-visual aids. Speakers are secured from local health related agencies. Spring

HPE 22201 Officiating Softball/Baseball. (1 Credit Hour) This course is an overview of the rules, regulations, and techniques necessary for officiating softball and baseball. Fall

HPE 22301 Officiating Basketball. (1 Credit Hour) This course is an overview of the rules, regulations, and techniques necessary for officiating basketball. It may lead to OHSAA certification. Fall

HPE 22401 Officiating Volleyball. (1 Credit Hour) This course is an overview of the rules, regulations, and techniques necessary for officiating volleyball. Spring

HPE 24302 Safety & First Aid. (2 Credit Hours) This course is a study of the factors related to and affecting personal, family, and community safety and accident prevention. There will be emphasis on procedures and techniques necessary to provide immediate and temporary treatment of injury during accidents and emergency situations. It can result in Red Cross First Aid and CPR certification. Course fee required. Fall Spring Summer

HPE 25201 Treatment of Athletic Injuries. (1 Credit Hour) This course covers the procedures and techniques concerned in the prevention, and immediate care and rehabilitation of injuries, which result from participating in physical activity. It includes one hour per week of arranged laboratory experience. Course fee required. Spring

HPE 25302 Coaching Football. (2 Credit Hours) This course covers the skills, techniques, and methods applicable to coaching football. Fall

HPE 25402 Coaching Basketball. (2 Credit Hours) This course covers the skills, techniques, and methods applicable to coaching basketball. Fall

HPE 25502 Coaching Track and Field. (2 Credit Hours) This course covers the skills, techniques, and methods applicable to coaching track and field. Spring

HPE 25602 Coaching Baseball and Softball. (2 Credit Hours) This course covers the skills, techniques, and methods applicable to coaching baseball and softball. Fall

HPE 25702 Coaching Volleyball. (2 Credit Hours) This course covers the skills, techniques, and methods applicable to coaching volleyball. Fall

HPE 26202 Drug Education. (2 Credit Hours) This course is an in-depth study of drug types (over-the-counter, prescription, depressants, vapors, hallucinogens, narcotics, and performance enhancing), their sources and effects on the body, dangers of abuse, drug traffic, and drugs and law. This study is done by the professor and guest speakers, such as drug and family counselors, government officials, law enforcement officers, federal narcotic agents, medical doctors, and pharmacists. Students are encouraged to participate in each class with large or small group discussion, question and answer sessions, and different panel presentations and discussions. Spring

HPE 26302 Water Safety Instructor. (2 Credit Hours) This course is a presentation of methods, resources, and techniques for teaching swimming and lifesaving courses. It may lead to Red Cross Water Safety Instructor Certification. Prerequisite: Current Red Cross Lifeguard Training Certificate. Spring

HPE 27303 Community Health. (3 Credit Hours) This course is designed to organize, plan, deliver, and evaluate the community health education program. The student will become familiar with the principles of public health. Spring
Emphasis will be placed on identifying the composition of foods

HPE 27502 Sex Education Seminar. (2 Credit Hours) This course is a detailed study of the reproductive systems and sexually transmitted infections. Students will study contraceptive methods, and learn and practice techniques for presenting this information in the schools and community. Fall

HPE 28801-02 Selected Topics in HPE. (1 to 2 Credit Hours) This course covers special projects directed by the professor, which are related to areas in the Health and Physical Education field. It may include conducting research, assisting a professor in a research project, individual projects, or other special Health and Physical Education experiences. On Demand

HPE 29901-02 Directed Studies in HPE. (1 to 2 Credit Hours) This course is an opportunity for a student to receive credit for conducting research, for assisting a professor in a research project, or for practical experience in the specific fields indicated: (A) Research in Physical Education; (B) Research in Health Education; (C) Practicum in Adapted Physical Education; (D) Practicum in Athletic Training; and (E) Administrative Intern. Course fee required. On Demand

HPE 30302 Mental Health. (2 Credit Hours) This course is a study of models of man with normal behavior and mental disorders. Students will study the standards of mental health and how they have changed over the years – how mood-altering drugs affect the mentally handicapped. A thorough understanding by the perspective teacher of mental health is gained by engaging community mental health organizations and a presentation concerning mental health issues. The course includes topics on stress and lifestyle, gender differences, life/death decisions, suicide, and child abuse. Small groups are utilized for discussion, field trips will be planned, and study will be done through audio-visual aids. Spring

HPE 32403 Evaluation of Human Physical Performance. (3 Credit Hours) This course deals with the selection, construction, and administration of instruments for the evaluation of psychomotor skills and traits. Basic descriptive statistics and some computer techniques will be included. During lab sessions, students will participate in many physical performance tests. Prerequisite: MTH 21404. Fall

HPE 33403 School Health Services. (3 Credit Hours) This course is designed to provide the student with principles of organization and administration of health appraisal, health counseling, communicable disease control, record keeping, school environment, and emergency programs. Students are asked to research specific health topics, which they orally present and defend during a panel presentation. Through first hand experience, students rate various building maintenance systems, classroom laboratories, etc. in relation to a healthy school environment. Students also use their cumulative knowledge to produce a video/DVD on an assigned health topic. Fall 2011/2013

HPE 34403 Motor Learning. (3 Credit Hours) This course deals with the description and analysis of human movements. Emphasis will be placed on: (1) human osteology, myology, and arthrology as they relate to skilled human movement; (2) mechanical principles related to skilled human movement; and (3) procedures used to analyze human movement. Prerequisite: BIO 21404. Spring

HPE 36203 Nutrition for Sports & Exercise. (3 Credit Hours) This course is a study of the utilization of food for the body, food as a source of energy, and the nutrients required for life processes. Emphasis will be placed on identifying the composition of foods and the effect of foods on growth and maintenance of good health. Includes a study of the advantages of proper pre- and post competition meals. Students gain knowledge of when to take in certain fluids, and what type of foods to eat for quick energy. Students are required to keep a daily food diary to heighten their awareness of their eating habits. The students will be able to identify nutrients through reading food labels and be able to use the food pyramid to plan healthy meals. Fall Summer

HPE 40403 Exercise Physiology. (3 Credit Hours) This course is a study of the adaptations made by the human organism to the stress of vigorous physical activity. Information from this course will form the theoretical basis for the construction of specific exercise and physical training programs. Current research will highlight procedures that best avoid exercise-related injuries. Scheduled lab. Prerequisite: BIO 21404. Fall

HPE 41403 Physical Education for Exceptional Children. (3 Credit Hours) This course is an overview of physical education and recreation programs as adapted to meet the needs of numerous types of exceptional children. This is an opportunity for students to study further more detailed programs that relate specifically to the exceptional child. Actual or simulated experience with a variety of exceptional children is provided. Spring

HPE 43403 Motor Learning. (3 Credit Hours) This course deals with the research findings and prominent theories related to the process by which motor skills are learned. Instruction will include lecture, discussion, and laboratory experiences. Spring

HPE 45403 Administration of Physical Activity Programs. (3 Credit Hours) This course covers special projects directed by the professor, which are related to areas in the Health and Physical Education field. It may include conducting research, assisting a professor in a research project, individual projects, or other special Health and Physical Education experiences. On Demand
HPE 49504 Business Administration with Health Care Concentration Internship. (4 Credit Hours) This course provides an administrative experience under the direct supervision of an administrator in a health-related organization. Students will deal with practical aspects related to the management and operation of this organization. The student will complete supervised projects, plans, and other administrative tasks under the joint supervision of a health care facility administrator and a university faculty member. The student will spend 100 clock hours working in the business or agency setting. Prerequisites: Senior standing, 2.5 GPA in the major, and permission of the instructor. Fall Spring

HPE 49804 Sports and Exercise Internship. (4 Credit Hours) The Sport and Exercise Studies major will spend one hundred (100) clock-hours working in a business or agency setting. The student will deal with practical aspects related to the management and operation of this organization. Prerequisites: Senior standing, a 2.5 GPA in the major, a 2.3 overall GPA, and permission of the instructor. Fall Spring

HPE 49901-02 Directed Studies in HPE. (1 to 2 Credit Hours) This course is an opportunity for a student to receive credit for conducting research, for assisting a professor in a research project, or for practical experience in the specific fields indicated: (A) Research in Physical Education; (B) Research in Health Education; (C) Practicum in Adapted Physical Education; (D) Practicum in Athletic Training; and (E) Administrative

HON - Honors Program

HON 10101 Beginning Honors Seminar. (1 Credit Hour). Selected topics will focus on variable subjects in the Humanities, Social Science, Natural Science, and other academic areas of knowledge. The student will be expected to participate in critical discussion, and write and present an analytical paper with argument and counterargument. Fall

HON 37103 Junior Honors Seminar. (3 Credit Hours). Selected topics in Intellectual History will be covered in this seminar course. Variable interdisciplinary topics in the history of ideas and research in Humanities, Social Science, Natural Science, and other areas of knowledge. The student will be expected to research, write, present, and defend a paper in Intellectual History in a seminar setting. Fall of Junior Year

HON 48103 Honors Thesis I. (3 Credit Hours). An extensive and comprehensive research project which will serve as the “capstone” of an Honors student’s baccalaureate degree. The student will be expected to acquire a significant body of new knowledge and develop expertise in his/her chosen field of study, and to defend the project formally and present the project to the University community in an appropriate public forum. To be completed in the last two semesters of the student’s program of study. On Demand

HON 48203 Honors Thesis II. (3 Credit Hours). An extensive and comprehensive research project which will serve as the “capstone” of an Honors student’s baccalaureate degree. The student will be expected to acquire a significant body of new knowledge and develop expertise in his/her chosen field of study, and to defend the project formally and present the project to the University community in an appropriate public forum. To be completed in the last two semesters of the student’s program of study. On Demand

HUM - Humanities

HUM 20103 (TM) The Humanities. (3 Credit Hours). An interdisciplinary study of the methods, issues, and central topics significant to the disciplines comprising the humanities. By exploring and connecting the different disciplinary ways of knowing in the disciplines, this course is designed to foster an enhanced appreciation of the distinctive nature of the humanities and a broad, integrated perspective. Topics may vary from term to term. Fall Spring

IND - Industrial Technology

IND 30003 How the Internet Works (3 Credit Hours). This course is designed to introduce students to the technologies that drive the Internet. Topics include: TCP/IP, Internet addresses and domains, Internet file types, routers, ISDN, Internet/television, network computers, DSL, Satellite and palmtop connections, email, spam, usenet newsgroups, IRC, Instant messaging, Internet phone calls, web pages, web browsers, HTML, hypertext, URLs, Image maps and interactive forms, web host servers, telnet, push technology, java, javascript, activeX, agents, CGI scripting, audio and video on the Internet, multicast IP, Mbone, virtual reality, animation, intranets, shopping on the Internet, firewalls, DOS attacks, cookies, passports, cryptography, digital certificates, and parental controls on the Internet. Research project will be assigned. Three hours lecture. Fall Spring

IND 30104 Basic Electricity/Electronics (4 Credit Hours). An introduction to the basic principles of electricity and electronics. Topics include units and notation, current, voltage, resistance, Ohm’s Law, power, energy, circuit protection, wire sizing, series and parallel circuits, capacitance, inductance, impedance, alternating current, three-phase electrical systems, transformers, single-phase motors, and three-phase motors. Research project will be assigned. Prerequisite/Corequisite: TEC 11704 or MTH 11403. Fall

IND 30202 Industrial Rigging (2 Credit Hours). This course is designed to provide the student with training in industrial rigging using fiber line, wire rope, and chains. The student will perform reeving, rigging using slings, and specialized rigging, and will use miscellaneous rigging equipment, material handling power equipment, and be able to load and unload trucks. Safety responsibilities of supervisors and inspection documentation of rigging equipment will be covered. Research project will be assigned. Spring

IND 30204 Manufacturing Graphic Language (4 Credit Hours). In order to gain a better understanding of developing a drawing, the course of study will begin with an introduction to the theory and practice of basic engineering drawing, the use of instruments, freehand sketching, orthographic drawing, dimensioning, and geometric construction. Following the introduction to basic engineering drawing, the student will begin an introduction to computer aided drafting and design. Drawings are created using the basic operating system, commands, keyboard use, and plotted or printed. Research project will be assigned. Two hours lecture, four hours lab. Spring

IND 30303 Microcomputer Hardware (3 Credit Hours). A study of Intel based microcomputers. Topics include: history, microprocessor performance, memory architecture, I/O mapping, interrupts, motherboard design, bus architecture, power supplies, floppy drives, sound cards, and video standards. This course is designed to introduce students to hardware and operating systems used in microcomputers and prepare them to pass the CompTIA A+ certification examination. Research project will be assigned. Two hours lecture, two hours lab. Spring
IND 31102 Blueprint Reading for Industry (2 Credit Hours). A course for those desiring a knowledge of blueprint reading as applied to industry. Included will be freehand sketching, lettering, understanding auxiliary views and projections and specifying for machining, welding, and numerical control. Instrumentation, hydraulic, and electrical control diagrams will be covered. Research project will be assigned. One hour lecture, three hours lab. Fall

IND 31103 Programmable Controllers I (3 Credit Hours). A study of the operational characteristics of programmable logic controllers. Major emphasis will include conversion of machine control logic diagrams to PLC programs. Additional topics include: types of input/output modules, system configuration, peripheral devices, timers, counters, arithmetic operations, logic functions, installation practices, data acquisition systems, and computer controlled machines and processes. Research project will be assigned. Prerequisite: IND 35003. Two hours lecture, two hours lab. Fall

IND 31104 Schematic Diagram Reading (4 Credit Hours). A course designed to give maintenance technicians a working knowledge of machinery blueprints. Included will be exploded view drawing of machine assemblies, terminology, piping schematics, welding, and tolerances for fit. The course will also give the maintenance technician practical hands-on experience in troubleshooting machine problems by using schematic diagrams. Included will be electrical schematics, hydraulic schematics, pneumatic schematics, piping diagrams and mechanical blueprints. Research project will be assigned. Prerequisite: IND 31004. Two hours lecture, four hours lab. Fall

IND 31303 Introduction to Networking (3 Credit Hours). Introduction to networking concepts and preparation to take the CompTIA Networking+ certification. Topics include: network topologies, protocols and services, OSI model, network components, and wide area networks. Research project will be assigned. Four hours lecture, four hours lab. This is an eight-week course. Fall

IND 31503 Basic Welding (3 Credit Hours). An introduction to the techniques and equipment used in arc and acetylene cutting and welding. Emphasis placed upon equipment operation and safety. Included is practice in gas and arc welding in all positions and the proper preparation of welded joints. Research project will be assigned. One hour lecture, four hours lab. Fall

IND 32102 Introductory CNC (2 Credit Hours). An introduction to the basic concepts and operations of computer numerical control machines. Emphasis placed on basic CNC codes, terminology, and programming. Includes CNC lathe and milling machine operations, as well as robotic interfacing with machines. Research project will be assigned. Prerequisites: MFG 12104 and TEC 11704. One hour lecture, three hours lab. Spring

IND 32104 Manufacturing Processes (4 Credit Hours). A study of materials’ properties, fabrication equipment, production methods, and procedures utilized in the production of metallic products. Included are practical experiences in machining, forming, molding, welding, measuring instruments, machine operation, machine capabilities, and manufacturing problem solving. Research project will be assigned. Two hours lecture, four hours lab. Spring

IND 32202 Power Wiring and Controls (2 Credit Hours). A comprehensive course designed to increase the knowledge of maintenance technicians in the devices and systems used to transmit and control in the plant and in machines. Included will be bus bar systems, transformers, magnetic starters, control devices, and troubleshooting. Research project will be assigned. Prerequisite: ELE 10104. One hour lecture and two hours lab. Fall

IND 32203 Basic Pipe Welding (3 Credit Hours). A continuation of the Advanced Welding course. The course of study is designed to provide the student with a working knowledge of the field of critical structural welding and an introduction to pipe welding. In addition to welding theory, the student will learn the skills and principles necessary to perform welding to meet the requirements of critical structural welding codes. Research project will be assigned. One hour lecture, four hours lab. Fall

IND 32303 Local Area Networks (3 Credit Hours). A study of the hardware and software used in local area networks. Topics include: network topology, base band networks, broad band networks, transmission medium, error detection and correction, protocol, and security. Research project will be assigned. Four hours lecture, four hours lab. This is an eight-week course. Fall

IND 33103 Advanced Pipe Welding (3 Credit Hours). A continuation of the Basic Pipe Welding course. The course of study is designed to provide the student with a working knowledge of the field of pipe welding. The course covers the principles and skills of performing welding to meet the requirements of pressure vessel/pressure piping codes. Research project will be assigned. One hour lecture, four hours lab. Spring

IND 33204 Power Transmission Devices (4 Credit Hours). A study of the devices used to transmit power in machines. Topics covered include: chain drives, belt drives, torque converters, speed reducers, transmissions, and others. Special emphasis will be placed on calculating the specifications required to complete a given task. Research project will be assigned. Two hours lecture, four hours lab. Fall

IND 34004 Electronic Devices (4 Credit Hours). A study of semiconductor theory, diodes, AC rectification bipolar transistors, transistor biasing, small signal amplifiers, field effect transistors, decibels, frequency response, bode plots, integrated circuits, differential amplifiers, operational amplifiers, negative feedback, positive feedback, active filters, oscillators, and voltage regulation. Research project will be assigned. Three hours lecture, two hours lab. Prerequisite: IND 30104. Spring

IND 34103 Materials and Metallurgy (3 Credit Hours). A comprehensive study of materials used in industry. Topics include: lattice structures, iron-carbon diagram, phase diagrams, alloying, hardness, material properties, destructive and nondestructive testing, and stress/strain diagrams. Students will be required to prepare samples and to identify the types of hardening, grain size, and structure of specimen. Research project will be assigned. One hour lecture, four hours lab. Spring

IND 34202 Quality Assurance (2 Credit Hours). A comprehensive study of quality inspection methods for in plant and out of plant use. Emphasis is placed on statistical process control methods including acceptance sampling, control charting, and process capability studies. Research project will be assigned. Prerequisite: MTH 21404 or TEC 11804 or instructor permission. Two hours lecture. Spring

IND 34303 TCP/IP (3 Credit Hours). An introduction to the TCP/IP protocol suite. Topics include: TCP/IP applications, TCP/IP structure and addressing, and TCP/IP protocols. Research project will be assigned. Four hours lecture, four hours lab. This in an eight-week course. Spring
IND 35003 Industrial Controls (3 Credit Hours). A study of the electrical devices used to control industrial machinery. Topics include: switches, control transformers, relays, contactors, solenoids, limit switches, linear displacement transducers, pressure switches and transducers, temperature switches, timers, counters, motor starters, ladder diagrams, bar charts and power factor correction. Research project will be assigned. Prerequisite: ELE 10104 or ELE 12006. Two hours lecture, two hours lab. Fall

IND 35203 Preventive Maintenance Planning and Scheduling (3 Credit Hours) An introduction to designing and implementing a preventative maintenance program. Included will be timed replacements, data collection, fluids, lubrication, and scheduling repairs. Research project will be assigned. Two hours lecture, three hours lab. Spring

IND 36004 Automatic Identification (4 Credit Hours). This course introduces six of the basic AUTO ID technologies: bar code symbology, optical character recognition, voice recognition, vision systems, RFID, and magnetic stripe. Topics include: bar code symbology, wands, keyboard wedges, bar code printers, scanners, verifiers, optical character recognition standards, recognition algorithms, page readers, transaction readers, speaker dependent and speaker independent systems, discrete word systems, connected word systems, continuous speech systems, magnetic stripe, radio frequency identification, vision recognition systems, magnetic ink character recognition, data encoding techniques, edge recognition, template match, lighting, analog to digital conversion, vidicon and CCD camera characteristics, radio frequency transmission and reception, active tags, and passive tags. Research project will be assigned. Three hours lecture, two hours lab. Fall

IND 36102 Hydraulics & Pneumatics (2 Credit Hours). Basic theories of hydraulic and pneumatic systems. A nontheoretical approach used in the discussion of the design, construction, and use of fluid power control elements. Provides a practical working knowledge of hydraulic and pneumatic components and basic circuits used in industrial hydraulics. Research project will be assigned. Prerequisite: MTH 11403 or TEC 11704 or instructor permission. One hour lecture, two hours lab. Spring

IND 36103 Weld Test & Inspection (3). Designed to provide a basic understanding of the destructive and non-destructive testing methods used in the inspections and testing of welded joints. The course will cover welding code interpretation, pre-weld joint preparation, post-welding test sample formation and preparation, types of destructive and non-destructive testing methods, and weld defect identification. In addition to the actual testing of weld joints, the course will include the preparation of written welding certification reports according to applicable codes. Research project will be assigned. Course fee required. Fall

IND 36202 Mechanical Troubleshooting and Repair (2 Credit Hours). A course designed to give the maintenance technician practical hands-on experience in troubleshooting and repairing mechanical devices. Included will be component alignment, bearings, bushings, vibration analysis, heat analysis, and component failure analysis. Research project will be assigned. Prerequisite: Permission of advisor. One hour lecture and two hours lab. Spring

IND 37102 Occupational Safety and Health (2 Credit Hours). A study of recognition, avoidance, and enforcement of safety regulations in industrial environments. Included will be implications of OSHA as they relate to the supervisor’s job. Research project will be assigned. Two hours lecture. Fall

IND 38102 Training Techniques for Supervisors (2 Credit Hours). A course covering the principles of job-instruction training; principles of learning process; instruction planning; use of instructional aids; attention to the environment of learning; and practice in individual and group instruction. Research project will be assigned. Two hours lecture. Fall

IND 38202 Machine Repair and Maintenance (2 Credit Hours). A course designed to provide the student with the basic knowledge and skills needed to set up maintenance system and repair general shop machinery and equipment. Included will be fluid power, electricity, mechanism, and lubricants as applied to industrial machinery. Research project will be assigned. Prerequisite: IND 31503, IND 32104, and IND 36102. One hour lecture, three hours lab. On Demand

IND 38302 Time and Motion Study (2 Credit Hours). A comprehensive study of the design and measurement of work and the techniques of setting work standards to effectively utilize tools, equipment, and manpower. Emphasis centered on work measurement and the principles of motion economy in practical situations. Research project will be assigned. Two hours lecture. On Demand

IND 38502 Manufacturing Synthesis (2 Credit Hours). A study of manufacturing organization and management with emphasis on a practical application of the courses taken during the study of the manufacturing technology program. A company will be formed and a product will be designed, built, and marketed providing a first-hand experience in the sequence of steps necessary to move a product from the conception phase to the marketing phase. Prerequisite: This course must be taken during the student’s last semester of the program. Research project will be assigned. One hour lecture, three hours lab. Fall

IND 38602 Problems in Manufacturing Technology (2 Credit Hours). For the advanced student who wants to conduct an intensive study of selected problems in manufacturing technology. Student must have approval of faculty advisor. Then must prepare a specific study proposal and have it approved by the pertinent instructor, all before registering for the course. This will be conducted as a Course Arrangement and the additional charges will apply. On Demand

IND 38903 Power Plant Cooperative Education Experience (3 Credit Hours). Eight-week assignment at a local power plant designed to make the student aware of what work life will be like as an operator, as well as have them learn a great deal about the plant. The student will be paid by the plant owner and graded on the co-op by a URG faculty member. Prerequisites: IND 30403, IND 31403, MFG 27102 OSHA, HPE 24302, and passage of the POSS (Plant Operator Selection System) exam. Drug test and physical may be required. Summer

IND 40103 Advanced Welding (3 Credit Hours). A study of advanced traditional and nontraditional welding methods. An analysis of the operation of AC and DC transformer, resistance, and MIG and TIG welding systems. Operational tests made on the effects of welding heats, polarities, and electrode types. Procedures such as welding ferrous and nonferrous materials and pipe joint welding will be practiced using the standard stick, MIG, TIG, and resistance welding methods. Research project will be assigned. Prerequisite: IND 31503. One hour lecture, four hours lab. Spring
IND 41103 Elements of Supervision (3 Credit Hours). Supervisory techniques in everyday supervision of employees. Fundamentals of effective communication, planning, organizing, staffing, directing and controlling and labor relations. Significance of leadership production functions, quality control, and cost reduction for profitability. Research project will be assigned. Three hours lecture. Fall

IND 41203 Programmable Controllers II (3 Credit Hours). Continuation of Programmable Controllers I. Topics include: program control, data manipulation instructions, mathematical instructions, sequencer instructions, and networking. Research project will be assigned. Prerequisite: IND 31103. Two hours lecture, two hours lab. Spring

IND 41303 Computer Network Security (3 Credit Hours). A course designed to introduce students to concepts associated with Internet and Intranet Security. Research project will be assigned. Four hours lecture, four hours lab. Eight-week course. Fall

IND 42202 Advanced CNC (2 Credit Hours). Coursework to include advanced programming, CAD/CAM, CIM, and system design. Research project will be assigned. Prerequisite: MFG 22102 or IND 32102 or equivalent basic CNC course. One hour lecture, three hours lab. Fall

IND 43303 Wireless Computer Networks (3 Credit Hours). A course designed to introduce students to wireless computer networking terms and concepts. Topics include: Radio Frequency Fundamentals, Spread Spectrum Technologies, Wireless LAN Infrastructure Devices, Antennas, Wireless LAN Organizations and Standards, 802.11 Network Architecture, Troubleshooting Wireless LANs, Wireless LAN Security, Site Survey Fundamentals. Research project will be assigned. Four hours lecture, four hours lab. Eight-week course. Spring

IND 44202 Electrical Troubleshooting and Repair (3 Credit Hours). A course designed to give the maintenance technician practical hands-on experience in troubleshooting and repair of electrical systems. Included will be control circuits, power circuits, PLCs, limit switches, pressure switches, and other components used in the control of electrical systems. Research project will be assigned. Prerequisite: IND 31104, IND 32202, and IND 35003. One hour lecture, two hours lab. Spring

IND 44303 Network Design (3 Credit Hours). An introduction to network analysis and design. Topics include: corporate computing, network life cycle, requirement analysis, network traffic analysis, logical network design, physical network design, implementation, and network baselining. Research project will be assigned. Four hours lecture, four hours lab. Eight-week course. Spring

IND 45203 Plant Layout/Materials Handling (3 Credit Hours). A comprehensive study of the relationships among people and machines, and the efficient movement of materials in the production of goods and services. This course will cover the planning and integrating of these components to obtain the most cost effective use of both old and new equipment and facilities in manufacturing plants, warehouses, and other business and industrial applications. Research project will be assigned. Prerequisite: MFG 10104 or IND 30204 Manufacturing Graphic Language. Two hours lecture, two hours lab. Spring

IND 45403 Certification Seminar (3 Credit Hours). A course designed to give a structured review as preparation for the student to master the Fundamentals of Manufacturing Certification Examination. Three hours lecture. Spring

IND 46102 Advanced Hydraulics & Pneumatics (2 Credit Hours). Coursework to include circuit design, component selection, trouble shooting techniques, control, and feedback circuits. Research project will be assigned. Prerequisite: MFG 16102 or IND 36102 or equivalent basic hydraulics and pneumatics course. One hour lecture, two hours lab. Fall

IND 47003 Robotics (3 Credit Hours). Basic robotic systems. Topics include: robot terminology, coordinate systems, work envelope considerations, manipulator drive systems, programming, servo system control, gears and linkage, interfacing, end effectors, sensors, and robotic applications. Research project will be assigned. Prerequisite: IND 35003. Two hours lecture, two hours lab. Spring

IND 48204 Electronic Maintenance (4 Credit Hours). A study of troubleshooting procedures used in the repair of electronic equipment. Special emphasis will be placed on the techniques and test equipment used in trouble-shooting industrial control systems. Research project will be assigned. Two hours lecture, four hours lab. Prerequisite: IND 32003. Spring

IND 48801-05 Selected Topics in Industrial Technology. (1 to 5 Credit Hours). A study of special topics, industrial processes, and applications. The course may be presented in various formats such as lecture and laboratory combinations, seminars, and plant visits. On Demand

IND 49001-04 Cooperative Education Experience. (1 to 4 Credit Hours). Workplace experience gained through placement into an Industrial Technology work environment. Coordination, supervision, and evaluation conducted by a School of Engineering Technologies faculty member and participating company. May be repeated once. On Demand

ISS – Information Services and Support

ISS 11303 DBMS Concepts (3 Credit Hours) A study of Database Management Systems concepts leading to the model and design of a relational database. A business database project will be completed. Course fee required. Prerequisite: IT 10103. (Cross-listed with IT 20303) Fall

ISS 12303 Database Communications (3 Credit Hours) This course provides an introduction to the SQL database communication language. This is an introduction to databases with an emphasis on the MySQL database system. Course fee required. Prerequisite: ISS 11303. (Cross listed with IT 20803) Fall

ISS 13303 Service Desk Concepts (3 Credit Hours) This course is designed to provide students with service desk concepts. Course fee required. Spring

ISS 20303 Database Administration (3 Credit Hours) This course provides an introduction to database administration with an emphasis on the ORACLE database system and gives students information and training in order to pass the ORACLE Certification Exam #1ZO-031. Course fee required. Prerequisite: ISS 12303 Fall

ISS 22303 Enterprise Computing (3 Credit Hours) This course is a study of the Principles of Information Systems and the Management of Information Technology within an organization. This is the capstone course. Course fee required. Prerequisite: 2nd year student graduating Spring Semester. Spring
IT - Information Technology

IT 10103 Introduction to Information Technology. (3 Credit Hours) An introduction to information technology. Topics include the Internet; computer hardware; operating systems and application software; multimedia; network communication; personal, social, and ethical issues. Course fee required. Fall Spring

IT 10203 MS Office and the Internet I. (3 Credit Hours) MS Office 2007 or later programs will be studied as an integrated unit to develop basic proficiency. Small Projects in Word, Excel, PowerPoint, Access and Publisher will be completed. Course fee required. Prerequisite: IT 10103. Fall

IT 10803 Application Programming Languages I. (3 Credit Hours) Introduction to basic programming concepts for Java, C# or other programming languages. Course fee required. Prerequisite: IT 10103 or by permission of instructor. Fall

IT 20103 Windows Operating System and Hardware. (3 Credit Hours) The study of operating systems such Windows XP, Vista, Server, and Linux will be examined. The ability to identify and troubleshoot PC hardware will be covered as well. Course fee required. Prerequisite: IT 10103. Fall, Summer

IT 20303 DBMS Concepts (3 Credit Hours) A study of Database Management Systems concepts leading to the model and design of a relational database. A business database project will be completed. Course fee required. Prerequisite: IT 10103. Fall

IT 20403 Web Development. (3 Credit Hours) A study of web development concepts leading to web site design with DreamWeaver or other software. Course fee required. Prerequisite: IT 10203 or instructor permission. Fall

IT 20803 Database Communication. (3 Credit Hours) This course provides an introduction to the SQL database communication language. This is an introduction to databases with an emphasis on the MySQL database system. Course fee required. Prerequisite: IT 20303. Fall

IT 20903 Web Technology. (3 Credit Hours) This course is a study of how the Internet works. Popular Internet server software will be explored. Course fee required. Prerequisite: IT 20403. Spring

IT 21503 3D Digital Design I. (3 Credit Hours) An introduction to 3D digital design. Students will learn the basics of designing in three dimensions using 3D digital design computer software. This is the introductory course emphasizing 3D primitive manipulation. Course fee required. Prerequisite: IT 10103 or Permission. Seven students are required for this class to be taught.

IT 21603/31603 3D Digital Design II. (3 Credit Hours) Advanced 3D digital design. Students will create a still image final project for this course. Utilizing the skills learned from the prequisite course and from this course. Emphasis is on primitive interactions, NURBS, Lighting and final scene renders. Course fee required. Prerequisite: IT 21503.

IT 21703 3D Digital Animation I. (3 Credit Hours) An introduction to 3D digital animation. Students will learn the basics of animation using 3D digital design software. Basic animation techniques will be examined such as keyframe animation. Course fee required. Prerequisite: IT 21603. Seven students are required for this class to be taught. Fall 11

IT 21803 3D Digital Animation II. (3 Credit Hours) Advanced 3D digital animation techniques. Students will develop a project for this course utilizing keyframe animation techniques. Physical simulation is explored. Course fee required. Prerequisite: IT 21703. Fall or Spring

IT 21903 3D Digital Landscape I. (3 Credit Hours) Introduction to 3D digital landscape design. Basic techniques for designing digital landscapes are explored. Basic fractal manipulation and scene composition are explored. Course fee required. Prerequisite: IT 10103 or Permission. Seven students are required for this class to be taught.

IT 22003 3D Digital Landscape II. (3 Credit Hours) Advanced techniques in creating 3D digital landscapes to include fractal object manipulation, planet creation, plant creation, and scene composition are explored. A final project is required for this course. Course fee required. Prerequisite: IT 21903 or Permission. Fall Spring

IT 22103 3D Digital Arts Business Procedures. (3 Credit Hours) This course covers a study of professional practices involved in the organization and operation of businesses concerned with the 3D digital arts to include copyrights, contracts, freelancing, and basic entrepreneurship. Course fee required. Prerequisite: IT 10103. Spring

IT 22203 Special Project in 3D Digital Design. (3 Credit Hours) Students begin to create their 3D digital portfolio. This course is a pre-capstone course for students to finalize their required project and prepare for the final capstone course. Course fee required. Prerequisite: IT 22003

IT 22303 3D Digital Design Portfolio. (3 Credit Hours) Students begin to create their 3D digital portfolio. This course is a pre-capstone course for students to finalize their required project and prepare for the final capstone course. Course fee required. Prerequisite: IT 22203. Fall Spring

IT 30103 Windows Operating System and Hardware. (3 Credit Hours) The study of operating systems such Windows XP, Vista, Server, and Linux will be examined. The ability to identify and troubleshoot PC hardware will be covered as well. Students will be required to build Windows XP, Vista and Server based on the instructor’s requirements. Prerequisite: IT 10103. Fall, Summer

IT 30203 Networking and Hardware. (3 Credit Hours) Basic concepts of Business Communications to include network hardware, software, and technologies related to business needs is examined. Prerequisite: IT 20103. Fall

IT 30403 Web Development. (3 Credit Hours) A study of web development concepts leading to web site design with DreamWeaver or other software. A complete published website will be completed. Prerequisite: IT 10203 or instructor permission. Fall

IT 30503 Visual Basic. (3 Credit Hours) Object Oriented Programming principles will be studied and implemented with Visual Basic.NET or later software. The course will emphasize programming for business applications. Prerequisite: IT 10103. Spring

IT 31403 Electronic Business (e-business). (3 Credit Hours) This course focuses on the basic concepts, key issues, and critical technologies of doing business electronically. Prerequisite: Spring

IT 41203 Enterprise Computing. (3 Credit Hours) This course is a study of the Principles of Information Systems and the Management of Information Technology within an organization. This is the capstone course. Course fee required. Prerequisite: IT 21103/41103. Spring
predicting trends, counseling organizational leaders, and to serve
To create an awareness of the art and science of analyzing and
mass communication, public opinion, and principles of persuasion.

JRN 33303 Introduction to Public Relations (3 Credit Hours).
An introduction to communication skills that deal with media,
mass communication, public opinion, and principles of persuasion.
To create an awareness of the art and science of analyzing and
predicting trends, counseling organizational leaders, and to serve
both the organization and public interest. Fall

JRN - Journalism

JRN 22103 News Writing for Media Publications (3 Credit Hours).
Techniques of good news writing designed to develop
skills necessary for a reporter through in-class laboratory exercises
and the Signals college newspaper. Includes experience in news
writing designed to further perfect the skills necessary to write clear,
concise, and accurate news stories and specialized types of news
stories. Experience in recognizing, developing, and writing features
and editorials. Course fee required. Fall

JRN 22302 Graphics (2 Credit Hours). Origins, development,
and current uses of various forms of printing, type design and
recognition, type harmony and legibility; copy fitting and layout fundamentals; introduction to color reproductions; trends in media typography; design of annual reports, leaflets, brochures, booklets,
and other forms of communication. Course fee required. Fall

JRN 22701-03 Student Newspaper Practicum (1 to 3 Credit Hours). Optional. The student is involved with practical aspects
in the operation of producing the University student newspaper
as reporter, graphic designer, op-ed columnist, photojournalist
or similar experience. Must have permission of faculty member
Teaching the course. The student will serve two hours for every
one hour of academic credit. Can be repeated for a maximum of
six (6) credit hours with no more than three (3) credit hours per
semester. Prerequisite: Must be able to demonstrate a proficiency of
journalistic skills. Dual listed as JRN 32701-03. Course fee required. Fall Spring

JRN 24103 Introduction to Radio and Television Production (3 Credit Hours). An introduction to the basics in radio and television
production and a study of the early methods and technology pertinent
to the development of the electronic media. Course fee required. Fall

JRN 32102 Broadcast News Writing (2 Credit Hours). Practice in
writing and producing news for electronic media. Editing
procedures. Technological competencies required. Emphasis on
correct grammar, style, reader interest, readability, and clarity.
Students will be involved with producing and directing RGCA-TV
news. Fall – On Demand, Spring

JRN 32701-03 Student Newspaper Practicum (1 to 3 Credit Hours). The student is involved in the operation of producing the University student newspaper in a supervisor’s role. Must have permission of faculty member teaching the course. The student
will serve two hours for every one hour of academic credit. Can be
repeated for a maximum of six (6) credit hours with no more than
three (3) credit hours per semester. Prerequisite: Must be able to
demonstrate a proficiency of journalistic skills. Fall Spring

JRN 33303 Introduction to Public Relations (3 Credit Hours).
An introduction to communication skills that deal with media,
mass communication, public opinion, and principles of persuasion.
To create an awareness of the art and science of analyzing and
predicting trends, counseling organizational leaders, and to serve
both the organization and public interest. Fall

JRN 34402 Desktop Publishing (2 Credit Hours). An advanced
course in graphical design. Includes current concepts that involve
various styles and type-fonts; type harmony and legibility; advanced
study in copy fitting and layout, including handling of color
reproductions; advanced design of leaflets, brochures, flyers, and
other forms of visual communication and to increase awareness
of effective news writing skills. Prerequisite: JRN 22302 or
demonstrated proficiency. Spring

JRN 36103 Advanced Radio/Video Production (3 Credit Hours).
Advanced study in the theory and practice of video and television
production techniques. Experience in the operation and creative use
of radio broadcasting equipment, and a basic background in radio
programming techniques. Spring

JRN 36901-03 TV/Radio Practicum (1 to 3 Credit Hours). The
student is involved with practical aspects leading to experience in
the operations of the University TV/Radio public access studio. The
student will spend two hours per week for one hour of credit. The
student can apply to complete the experience in a privately owned
broadcast/production facility, if the appropriate level of expertise
has been acquired. Must have permission of the Practicum Faculty
Advisor. Fall Spring

JRN 43603 Publicity and Media Campaigns (3 Credit Hours).
Deals with case studies of communication in industry, labor,
education, government, social welfare, and trade associations.
Applies techniques and programs to real life problems and
opportunities. Practical experience in use of controlled and
uncontrolled media to achieve motivation from various target
audiences; theory and nature of materials emanating from a Public
Relations department or counseling firm, and practical analysis
and development of specialized communication materials to gain
reaction and support from specialized groups. Spring

JRN 49803-05 Internship (3 Credit Hours). The student is involved
with practical aspects of an institution or business or is involved in an
independently designed project, the practical aspects of a newspaper or
is involved in an independently designed project related to journalism.
The student will spend two hours per week at the place of internship
for each one hour of credit. Fall Spring Summer

LA - Liberal Arts

LA 10101 Freshman Success. (1 Credit Hour) This is a one (1)
credit hour course required of all entering students at the University
of Rio Grande. The course is designed to assist students with the
choice of a college major and career life planning. It will also help
students adjust to college, develop an understanding of the learning
process, and acquire basic academic “survival skills.” Students will
gain an appreciation for a variety of artistic expressions and topics
of current interest, which include cultural diversity, personal health
and well-being, and music, dance, and theatre. Course fee required. Fall Spring

MFG - Manufacturing Technology

MFG 10103 Basic Welding (3 Credit Hours). An introduction to
the techniques and equipment used in arc and acetylene cutting and
welding. Emphasis placed upon equipment operation and safety.
Included is practice in gas and arc welding in all positions and the
proper preparation of welded joints. One hour lecture, four hours.
Course fee required. Fall
MFG 10104 Manufacturing Graphic Language (4 Credit Hours).
In order to gain a better understanding of developing a drawing, the
course of study will begin with an introduction to the theory and
practice of basic engineering drawing, the use of instruments, freehand
sketching, orthographic drawing, dimensioning, and geometric
construction. Following the introduction to basic engineering drawing,
the student will begin an introduction to computer aided drafting
and design. Drawings are created using the basic operating system,
commands, keyboard use, and plotted or printed. Two hours lecture,
four hours lab. Course fee required. Spring

MFG 11102 Blueprint Reading for Industry (2 Credit Hours).
A course for those desiring knowledge of blueprint reading as
applied to industry. Included will be freehand sketching, lettering,
understanding auxiliary views and projections and specifying
for machining, welding, and numerical control. Instrumentation,
hydraulic, and electrical control diagrams will be covered. One hour
lecture, two hours lab. Course fee required. Fall

MFG 12103 Weld Testing & Inspection (3 Credit Hours).
Designed to provide a basic understanding of the destructive and
non-destructive testing methods used in the inspections and testing
of welded joints. The course will cover welding code interpretation,
pre-weld joint preparation, post-welding test sample formation and
preparation, types of destructive and non-destructive testing
methods, and weld defect identification. In addition to the actual
testing of weld joints, the course will include the preparation of
written welding certification reports according to applicable codes.
Two hour lecture, two hours lab. Course fee required. Fall

MFG 12104 Manufacturing Processes (4 Credit Hours).
A study of materials' properties, fabrication equipment, and methods and
procedures utilized in the production of metallic products. Included
are practical experiences in machining, forming, molding, welding,
measuring instruments, machine operation, machine capabilities, and
manufacturing problem solving. Two hours lecture, four hours lab.
Course fee required. Fall

MFG 14104 Schematic Diagram Reading (4 Credit Hours).
A course designed to give maintenance technicians a working
knowledge of machinery blueprints. Included will be exploded
view drawing of machine assemblies, terminology, piping
schematics, welding, and tolerances for fit. The course will also
give the maintenance technician practical hands-on experience in
troubleshooting machine problems by using schematic diagrams.
Included will be electrical schematics, hydraulic schematics,
pneumatic schematics, piping diagrams, and mechanical blueprints.
Two hours lecture and four hours lab. Course fee required. Fall

MFG 14202 Power Wiring and Control (2 Credit Hours).
A comprehensive course designed to increase the knowledge of
maintenance technicians in the devices and systems used to transmit
and control electricity in the plant and in machines. Included will be
bus bar systems, transformers, magnetic starters, control devices,
and troubleshooting. One hour lecture and two hours lab. Course fee
required. Fall

MFG 16102 Hydraulics and Pneumatics (2 Credit Hours).
Basic theories of hydraulic and pneumatic systems. A non-theoretical
approach used in the discussion of the design, construction, and
use of fluid power control elements. Provides a practical working
knowledge of hydraulics and pneumatic components and basic
circuits used in industrial hydraulics. Prerequisite: MTH 11403 or
TEC 11704 or instructor permission. One hour lecture, two hours
lab. Course fee required. Spring

MFG 18302 Time and Motion Study (2 Credit Hours).
A comprehensive study of the design and measurement of work and
the techniques of setting work standards to effectively utilize tools,
equipment, and manpower. Emphasis centered on work measurement
and the principles of motion economy in practical situations. Two
hours lecture. Course fee required. On Demand

MFG 20103 Advanced Welding (3 Credit Hours).
A study of advanced traditional and nontraditional welding methods. An
analysis of the operation of AC and DC transformer, resistance, and
MIG and TIG welding systems. Operational tests made on the effects
of welding heats, polarities, and electrode types. Procedures such
as welding ferrous and non-ferrous materials and pipe joint welding
will be practiced using the standard stick, MIG, TIG, and resistance
welding methods. Prerequisite: MFG 10103. One hour lecture, four
hours lab. Course fee required. Spring

MFG 21103 Elements of Supervision (3 Credit Hours).
Supervisory techniques in everyday supervision of employees.
Fundamentals of effective communication, planning, organizing,
staffing, directing and controlling, and labor relations. Significance of
leadership production functions, quality control, and cost
reduction for profitability. Three hours lecture. Fall

MFG 22102 Introductory CNC (2 Credit Hours).
An introduction to the basic concepts and operations of computer numerical control
machines. Emphasis placed on basic CNC codes, terminology, and
programming. Includes CNC lathe and milling machine operations,
as well as robotic interfacing with machines. Prerequisites: MFG
12104 and TEC 11704 or permission of instructor. One hour lecture,
three hours lab. Course fee required. Spring

MFG 22202 Advanced CNC (2 Credit Hours). A continuation
of MFG 22102. Coursework to include advanced programming,
CAD/CAM, CIM, and system design. Prerequisite: MFG 22102
or equivalent basic CNC course. One hour lecture, two hours lab.
Course fee required. Fall

MFG 22203 Basic Pipe Welding (3 Credit Hours).
A continuation of the Advanced Welding course. The course of study is designed to
provide the student with a working knowledge of the field of critical
structural welding and an introduction to pipe welding. In addition
to welding theory, the student will learn the skills and principles
necessary to perform welding to meet the requirements of critical
structural welding codes. Course fee required. One hour lecture, four
hours lab. Fall

MFG 23103 Advanced Pipe Welding (3 Credit Hours). A continuation
of the Basic Pipe Welding course. The course of study is designed to
provide the student with a working knowledge of the field of pipe welding. The course covers the principles and skills
of performing welding to meet the requirements of pressure vessel/
pressure piping codes. Course fee required. One hour lecture, four
hours lab. Spring

MFG 24103 Materials & Metallurgy (3 Credit Hours).
A comprehensive study of materials used in industry. Topics include:
lattice structures, iron-carbon diagram, phase diagrams, alloying,
hardness, material properties, destructive and nondestructive testing,
and stress/strain diagrams. Students will be required to prepare
samples and to identify the types of hardening, grain size, and
structure of specimen. One hour lecture, four hours lab. Course fee
required. Spring
MFG 2402 Quality Assurance (2 Credit Hours). A comprehensive study of quality inspection methods for in plant and out of plant use. Emphasis is placed on statistical process control methods including acceptance sampling, control charting, and process capability studies. Course fee required. Two hours lecture. Prerequisite: TEC 11804 or approval of instructor. Spring

MFG 24302 Electrical Troubleshooting and Repair (2 Credit Hours). A course designed to give the maintenance technician practical hands-on experience in troubleshooting and repair of electrical systems. Included will be control circuits, power circuits, PLCs, limit switches, pressure switches, and other components used in the control of electrical systems. Prerequisites: MFG 14104, MFG 14202, and ELE 25003. One hour lecture and two hours lab. Course fee required. Spring

MFG 25102 Mechanical Troubleshooting and Repair (2 Credit Hours). A course designed to give the maintenance technician practical hands-on experience in troubleshooting and repairing mechanical devices. Included will be component alignment, bearings, bushings, vibration analysis, heat analysis, and component failure analysis. Prerequisite: Permission of advisor. One hour lecture and two hours lab. Course fee required. Spring

MFG 25104 Power Transmission Devices (4 Credit Hours). A comprehensive course designed to give technicians a working knowledge of mechanical power transmission devices. Included will be a study of bearings, seals, shafts, couplings, fasteners, and other mechanical devices used in machinery subassemblies, speed reducers, belt drives, chain drives, gear trains, torque converters, and other mechanical devices used to transmit power. Two hours lecture and four hours lab. Course fee required. Fall

MFG 25203 Plant Layout and Materials Handling (3 Credit Hours). A comprehensive study of the relationships among people, machines, and the efficient movement of materials in the production of goods and services. This course will cover the planning and integrating of these components to obtain the most cost effective use of both old and new equipment and facilities in manufacturing plants, warehouses, and other business and industrial applications. Plant tours required. Prerequisite: MFG 10104. Two hours lecture, two hours lab. Course fee required. Spring

MFG 25303 Preventive Maintenance Planning & Scheduling (3 Credit Hours). A course designed to give the maintenance technician practical hands-on experience in designing and implementing a preventive maintenance program. Included will be timed replacements, data collection and interpretation, fluids, lubrication, derating, and scheduling repairs. Prerequisite: Permission of advisor. Two hours lecture and two hours lab. Course fee required. Spring

MFG 26102 Advanced Hydraulics and Pneumatics (2 Credit Hours). A continuation of MFG 16102. Coursework to include circuit design, component selection, troubleshooting techniques, control and feedback circuits, and hands-on component installation. One hour lecture, two hours lab. Course fee required. Prerequisite: MFG 16102 or equivalent basic hydraulics and pneumatics course. Fall

MFG 27102 Occupational Safety and Health (2 Credit Hours). A study of hazard recognition and avoidance and enforcement of safety regulations in industrial environments. Included will be the implications of OSHA as they relate to the supervisor’s job. Two hours lecture. Fall

MFG 28102 Training Techniques for Supervisors (2 Credit Hours). A course covering the principles of job-instruction training; principles of learning process; instruction planning; use of instructional aids; attention to the environment of learning; and practice in individual and group instruction. Two hours lecture. Fall

MFG 28202 Machine Repair and Maintenance (2 Credit Hours). A course designed to provide the student with the basic knowledge and skills needed to set up a maintenance system and repair general shop machinery and equipment. Included will be fluid power, electricity, mechanism, and lubricants as applied to industrial machinery. Prerequisites: ELE 10104, MFG 10103, MFG 12104, and MFG 16102. One hour lecture, two hours lab. Course fee required. On Demand

MFG 28502 Manufacturing Synthesis (2 Credit Hours). A study of manufacturing organization and management with emphasis on a practical application of the courses taken during the study of the manufacturing technology program. A company will be formed and a product will be designed, built, and marketed providing a first-hand experience in the sequence of steps necessary to move a product from the conception phase to the marketing phase. Prerequisite: This course must be taken during the student’s last semester of the program. One hour lecture, two hours lab. Course fee required. Fall

MFG 28602 Problems in Manufacturing Technology (2 Credit Hours). This course is for the advanced student who wants to conduct an intensive study of selected problems in manufacturing technology. Student must have approval of faculty advisor, then must prepare a specific study proposal and have it approved by the pertinent instructor, all before registering for the course. This will be conducted as a Course by Arrangement and the additional charges will apply. Course fee required. On Demand

MFG 28801-04 Selected Topics in Manufacturing Technology (1 to 4 Credit Hours). A study of topics not included in other course offerings. Prerequisite: Permission of the instructor. (A maximum of four semester hours can be applied to graduation requirements for a single AAS program.) Special Course fee required. On Demand

MFG 29001-04 Cooperative Education Experience (1 to 4 Credit Hours). Study and work in a manufacturing industry in a position related to the student's major area of concentration. Duration: 15 weeks in an approved position. Observation and evaluation by an industrial supervisor and a campus supervisor are required. The student must attend a scheduled two hour campus seminar every two weeks. (A maximum of four semester hours can be applied to graduation requirements for a single AAS or ATS program.) Special Course fee required. On Demand

MFG 29901-03 Directed Studies in Manufacturing Technology (1 to 3 Credit Hours). Independent study and/or research under the supervision of an instructor in manufacturing technology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing, the completion of at least six (6) hours in MFG courses, and permission of the instructor. Course fee may be required. On Demand
MKT - Marketing

MKT 20403 Fundamentals of Entrepreneurship. (3 Credit Hours) This course is now listed as ENT 20403 Fundamentals of Entrepreneurship. On Demand

MKT 21403 Principles of Marketing. (3 Credit Hours) Marketing planning, implementation, and control by organizations, with special emphasis on the role of product, price, place, promotion, and consumer behavior in the development of marketing programs. Computer simulation required. A student project is required for MKT 31403. Prerequisite: ECO 11103 or ECO 11403. Course fee required Fall Spring

MKT 28801-03 Selected Topics in Marketing. (1 to 3 Credit Hours) Selected topics relevant to sales and marketing. Course fee required On Demand

MKT 33403 Marketing Research. (3 Credit Hours) Research as a tool for decision making. Planning research projects; design, measurement, experimental and non-experimental techniques, analysis and interpretation of data; and reporting of research results. Situation and data analysis skills are developed through lectures, cases, field projects, and computer applications. Prerequisites: MTH 21404 and MKT 21403. Spring

MKT 34403 Consumer Behavior. (3 Credit Hours) A study of the theoretical concepts of consumer behavior. The course stresses the application of the conceptual material to marketing strategies and decision making in the private, public, and non-profit sectors. Case analysis and student projects. Prerequisite: MKT 21403. Fall

MKT 35403 Retail Management. (3 Credit Hours) Introduction to retailing emphasizing pricing, buying, layout, and inventory. Case analysis and computer simulation utilized. Prerequisite: MKT 21403. On Demand

MKT 36403 Professional Communication and Business Networking. (3 Credit Hours) Provides tools and skills to effectively communicate within the business environment by considering all forms of business correspondence as well as written communication with management. Presentation skills will also be emphasized, and students will be required to write and present a business report. Additional work/assignments required for MKT 36403. Fall

MKT 37403 Advertising and Promotion. (3 Credit Hours) A study of various elements of the promotional mix and how they are combined to develop a total marketing communication program. Major emphasis is placed on understanding the changes taking place in the advertising industry and how they influence strategies and tactics. A project is required for MKT 37403. Prerequisite for 27403: MKT 21403. Prerequisites for 37403: MKT 21403 and MKT 34403. Fall

MKT 38403 Business to Business Marketing. (3 Credit Hours) A study of the basic applications of marketing in the business-to-business environment. Logistics, supply chain management, and technological advancements in the field, including RFID and e-procurement, will all be discussed. The course will also explain the viability of promotional elements like trade journals, websites, and trade shows. Spring

MKT 39901-02 Directed Studies in Marketing. (1 to 2 Credit Hours) Individual research and work for the advanced student related to major field of study. Prerequisites: MKT 31403, permission of instructor and School Chair. On Demand

MKT 41403 Sales Management. (3 Credit Hours) A study of theories, practices, and functions of sales management. Included are such topics as the selling process, developing territories, measuring market and sales potential, and forecasting. Case analysis and computer simulation. On Demand

MKT 42403 Product Management. (3 Credit Hours) The planning and management of both new and existing products (goods or services). Emphasis on planning assignments, computer exercises, and case analysis. Prerequisite: MKT 33403. On Demand

MKT 44403 International Marketing. (3 Credit Hours) This course attempts to help the student to understand the marketing processes and strategies at work in the international environment. An analysis of the marketing opportunities abroad is made in order to explore the marketing possibilities open to the U.S. and to examine its competitiveness vis-à-vis other states. Moreover, emphasis is placed on the examination of cultural, economic, and socio-political factors operating in the international arena and their influence on international marketing management approaches. Prerequisite: MKT 21403. Spring

MKT 47403 Marketing Management. (3 Credit Hours) Identification of marketing problems and situations, diagnosis and causes with the development of appropriate marketing strategies. Case studies and marketing simulation. Communications of findings and strategies are emphasized. Prerequisite: MKT 21403. Spring

MKT 49102 Internship/Experience in Marketing. (2 Credit Hours) On the job training of at least 100 meaningful hours or 12/13 working days after approval of the major Professor, Faculty Internship Coordinator, School Chair, and an approved organization, which is expected to give the intern a variety of new and meaningful learning experiences directly related to the Business Administration major and Marketing. The intern is expected to grow, work hard, and make a professional contribution to the organization. Fall Spring

MKT 49901-02 Directed Studies in Marketing. (1 to 2 Credit Hours) Individual research and work for the advanced student related to major field of study. Prerequisites: MKT 31403, permission of the instructor and the School Chair. On Demand

MTH - Mathematics

NOTE: A student may not take a mathematics course for credit that is a prerequisite for a mathematics course the student has already passed, unless required by an academic program, or unless approved by majority vote of the mathematics faculty.

MTH 10403 Mathematics Review (3 Credit Hours). A development of basic mathematics. Topics include: the set of integers, the set of rational numbers, and introductory algebra. Applications involving ratios, proportions, percentage, and measurement are included. May not be used as mathematics elective. Course fee required. Fall Spring
MTH 11203 Introductory Algebra (3 Credit Hours). An introduction to the concepts and techniques of algebra. Topics include: properties of the real numbers, variables, algebraic expressions, solving first and second degree equations, graphing, linear equations, systems of linear equations, and exponents. Prerequisite: A grade of C or better in MTH 10403 or equivalent skill level as indicated by the score on the placement exam. May not be used as mathematics elective. Course fee required. Fall Spring

MTH 11403 Intermediate Algebra (3 Credit Hours). A study of the techniques of algebra for students having some background in algebra. Topics include: exponents and radicals, polynomials, factoring, rational expressions, solving second degree equations, and graphing quadratic equations. Prerequisite: A grade of “C” or better in MTH 11203 or equivalent. Skill level as indicated by the score on the placement exam. May not be used as mathematics elective. Course fee required. Fall Spring

MTH 11505 Mathematics for Educators I (5 Credit Hours). An introduction to the fundamentals of mathematics for education majors. Topics include: problem-solving strategies, sets, numeration systems, integer and rational number operations, real numbers, and functions. Prerequisite: A grade of C or better in MTH 11403 or equivalent skill level as indicated by the score on the placement exam. May not be used as mathematics elective. Course fee required. Fall Spring

MTH 11604 Mathematics for Educators II (4 Credit Hours). A continuation of MTH 11505. Topics include: elementary probability, data analysis, and informal geometry with an emphasis on the study of measurement and the properties of simple closed curves. Prerequisite: MTH 11505. May not be used as mathematics elective. Course fee required. Fall Spring

MTH 14505 (TM) Pre-calculus (5 Credit Hours). An introduction to functions. Topics include: algebraic, exponential, logarithmic, and trigonometric functions. Also included are systems of linear and non-linear equations, conic sections, and vectors. Emphasis is placed on graphing with a graphing calculator. A graphing calculator is required. Prerequisite: A grade of C or better in MTH 11403 or equivalent skill level as indicated by the score on the placement exam. May not be used as mathematics elective. Course fee required. Fall Spring

MTH 15105 (TM) Calculus I (5 Credit Hours). Pre-calculus Review, Limits, Continuity, The Derivative, Applications of the Derivative, the Definite Integral, the Indefinite Integral, and Applications of the Integral. Prerequisite: MTH 14505 Pre-calculus or equivalent skill level as indicated by the score on the placement exam. Course fee required. Fall Spring

MTH 15204 Calculus II (4 Credit Hours). A continuation of Math 15105. Topics include: transcendental functions, techniques of integration, indeterminate forms, improper integrals, sequences, series, and elementary differential equations. Prerequisite: MTH 15105. Course fee required. Spring

MTH 15304 Multivariable Calculus (4 Credit Hours). A continuation of MTH 15204. Topics include: vectors in two and three dimensions, analytic geometry in three dimensions, partial derivatives, multiple integrals, and vector calculus. Prerequisite: MTH 15204. Course fee required. Fall

MTH 21404 Introductory Probability and Statistics (4 Credit Hours). An introduction to probability and statistics. Topics include: organizing data, graphical presentations of data, measures of central tendency and dispersion, relative standing, normal curve theory, elementary probability, correlation and simple regression, chi-square, and hypothesis testing of means for one and two samples. Mathematics credit is not given for both MTH 21404 and MTH 21603. Prerequisite: A grade of C or better in MTH 11403 or a grade of C or better in NUR 11101 (enrolled Nursing students only) or equivalent skill level as indicated by the score on the placement exam. May not be used as mathematics elective. Course fee required. Fall Spring

MTH 21504 Probability and Statistics I (4 Credit Hours). An introduction to probability and descriptive statistics. Topics include: introductory probability; conditional probability; combinatorics; random variables; expected value; discrete probability distributions (binomial, geometric, hyper-geometric, Poisson); graphical representations of data; measures of central tendency, variation, and relative standing; and normal curve probabilities. Prerequisite: A grade of C or better in MTH 11403 or equivalent skill level as indicated by score obtained on mathematics placement examination. Course fee required. Fall

MTH 21603 Probability and Statistics II (3 Credit Hours). A continuation of MTH 21504. Topics include: sampling distributions; confidence intervals for means and proportions; hypothesis testing for means, proportions, and variances; correlation and simple linear regression; chi-square; curve-fitting; multiple regression; and ANOVA. Mathematics credit is not given for both MTH 21603 and MTH 21404. Prerequisite: MTH 21504. Course fee required. Spring

MTH 25403 Discrete Mathematics (3 Credit Hours). An introduction to discrete mathematics with emphasis on problem-solving. Topics include: elementary set theory, introductory logic, number systems, algorithms, permutations, combinations, recurrence relations, mathematical induction, matrices, and graph theory. Prerequisite: A grade of C or better in MTH 11403 or equivalent skill level as indicated by the score on the placement exam. Course fee required. Spring

MTH 26603 Number Theory (3 Credit Hours). A study of basic concepts of abstract number theory. Topics include: divisors and prime numbers, Diophantine equations, linear and quadratic equations, and continued fractions. Prerequisite: MTH 25403 Spring 2012

MTH 27403 College Geometry (3 Credit Hours). A formal approach to the development of Euclidean geometry and an introduction to non-Euclidean geometry. Special emphasis is placed on the construction of geometric proofs. Prerequisite: MTH 25403 Course fee required. Spring 2013

MTH 27703 Differential Equations I (3 Credit Hours). A study of first and second order ordinary differential equations with emphasis on applications. Prerequisite: MTH 15304 Course fee required. Spring

MTH 28801-05 Selected Topics in Mathematics (1 to 5 Credit Hours). A study of topics not included in other course offerings. May be repeated to a maximum of ten hours. Prerequisite: As required. Course fee required. On Demand
MTH 37403 Mathematical Models (3 Credit Hours). An introduction to mathematical modeling. Discrete and continuous mathematical models of real-world problems in various disciplines are analyzed numerically, graphically, and analytically through techniques of algebra, geometry, calculus, numerical analysis, and available technology. Topics include: graphing, recursion formulas, difference equations, curve fitting, continuous optimization techniques, and linear programming. Prerequisite: MTH 15204 (may be taken concurrently). Fall 2012

MTH 37903 Differential Equations II (3 Credit Hours). A continuation of MTH 27703. Topics include: Laplace transform, series solutions, Gamma function, systems of differential equations, numerical methods, and Fourier series. Prerequisite: MTH 27703. On Demand

MTH 38403 Linear Algebra (3 Credit Hours). An introduction to the basic concepts of linear algebra. Topics include: systems of linear equations, vector spaces, linear transformations, matrices, determinants, orthogonality, eigenvalues, and eigenvectors. Prerequisite: MTH 25403. Spring 2013

MTH 38603 Abstract Algebra (3 Credit Hours). An introduction to modern abstract algebra. Topics include: groups, integral domains, rings, fields, modules, and vector spaces. Prerequisite: MTH 25403. Fall 2012

MTH 43403 History of Mathematics (3 Credit Hours). A survey of the history of mathematics from the ancient Egyptian and Babylonian cultures to the present. Emphasis on the Greek period, the Renaissance of mathematics during the seventeenth century, and transition to the twentieth century. Prerequisite: MTH 15204. Fall 2013

MTH 44403 Real Variables (3 Credit Hours). A rigorous approach to the study of continuous functions. Topics include: sequences, series, limits, derivatives, and integrals. Prerequisite: MTH 25403. Fall 2013

MTH 45403 Complex Variables (3 Credit Hours). An introduction to complex analysis. Topics include: algebra of complex numbers, analytic functions, elementary functions, integrals, series, residues and poles, and conformal mappings with applications. Prerequisite: MTH 25403. Spring 2012

MTH 48801-05 Selected Topics in Mathematics (1 to 5 Credit Hours). A study of topics not included in other course offerings. The format may be independent or directed studies or a scheduled class. Open to majors in mathematics. Prerequisite: Permission of instructor and School Chair. Additional prerequisites: As required. On Demand

MUS - Music

MUS 10000 Concert Attendance (0 Credit Hours). All Music majors are required to attend 80% of all performances and portfolio presentations sponsored by the Music Department each year. Attendance will be taken at all Music Department events. Other similar concerts may be substituted with prior approval of the student’s advisor. A written evaluation of this outside concert, along with the concert program, must be shared with the student’s advisor and made a part of the student’s portfolio. Fall Spring.

MUS 10201 Piano Lab Practicum (1 Credit Hour). Individual lessons. May be repeated each semester. Two hours toward graduation for non-Music majors. Course fee required. Fall Spring.

MUS 10302 Aural Training I (2 Credit Hours). The development of skills in writing, aural recognition, and performance of intervals, scales, rhythms, melodies, and harmonies through sight-singing, drills, and diction. Basic interval and rhythmic identification, and major and minor triads are emphasized. Two hours class, one hour lab. Prerequisite: MUS 10703 or by permission of the instructor. To be taken concurrently with MUS 12103. Fall.

MUS 10402 Aural Training II (2 Credit Hours). The development of skills in writing, aural recognition, and performance of intervals, scales, rhythms, melodies, and harmonies through sight-singing, drills, and dictation. Diatonic melodic dictation, seventh chords, and basic harmonic progressions are emphasized. Two hours class, one hour lab. Prerequisite: MUS 10302. To be taken concurrently with MUS 12203. Spring.

MUS 10403 (TM) Music Appreciation (3 Credit Hours). This course is intended to stimulate curiosity and enthusiasm, and heighten knowledge and enjoyment of music. Students will be exposed to representative works from all periods of music history and will learn to develop perceptive listening habits through careful listening and analysis. A minimum of two live concerts will be attended and critiqued. Comparisons will be made between music and the visual arts. Visits by visual artists when schedules permit. Designed for both Music majors and non-majors. Fall Spring.

MUS 10501 Portfolio (1 Credit Hour). In this course, students are introduced to the concept of portfolios. Students are expected to plot their own trajectory to generate interest in the “process of learning.” Students will learn to set up a portfolio in electronic, online format, create a résumé and cover letter, and document the progress of their education. Emphasis will be placed on use of computer software and hardware used for creating recordings of musical artifacts that may be included in a portfolio. This course should be taken the first semester after the major is declared. Fall.

MUS 10703 Fundamentals of Music (3 Credit Hours). A study of the elements of music, including pitch, melody, rhythm, harmony, tone color, form, notation, keys, and expression. Practical experiences through song, instruments, and music literature are designed to help the classroom teacher develop basic music skills used in teaching. Open to all students. Spring.

MUS 12101 Symphonic Band (1 Credit Hour). This band brings together university students and instrumentalists from the community. It performs at several regular concerts each year, in addition to special university and community events. Quality music is programmed. Rehearsals are planned to challenge each student, encourage individual improvement, and achieve quality group performances. Membership is open to all without an audition. May be repeated each semester. Fall Spring.

MUS 12103 Music Theory I (3 Credit Hours). This course is a study of the written language of music as related to the traditional practice of the Western art from the 17th through the 19th centuries. Analytical, writing, and keyboard harmony skills are systematically developed. Basic components of scales, intervals, triads, and modalities are established. Prerequisite: MUS 10703 or equivalent skill levels indicated by the score on the Music Theory Placement exam or by permission of the instructor. Fall.
MUS 12203 Music Theory II (3 Credit Hours). This course is a study of the written language of music as related to the traditional practice of the Western art from the 17th through the 19th centuries. Analytical, writing, and keyboard harmony skills are systematically developed. The structure and harmonization of melodies, the use of non-harmonic tones, seventh chords, modulations, secondary dominants, and binary and ternary forms are emphasized. Prerequisite: MUS 12103. To be taken concurrently with MUS 10402. Spring.

MUS 13101 Masterworks Chorale (1 Credit Hour). This chorus brings together interested university students and community singers from the five-county surrounding area. This chorus of 40-80 persons is open to anyone with a desire to sing (no audition required - for credit or non-credit), and performs at least one concert of exemplary choral music each semester, occasionally with professional orchestral accompaniment. Sometimes additional performances are scheduled in nearby cities. Rehearsals are planned to challenge each student, encourage individual improvement, and achieve quality group performances. May be repeated each semester. Fall Spring.

MUS 14301. Computers in Music (1 Credit Hour). This course offers instruction in using computer applications particularly helpful to musicians; namely the notation/MIDI program Finale. The course also covers word processing and graphic applications germane to the Music educator. Spring.

MUS 15101 Instrument Lab Practicum (1 Credit Hour). Individual lessons. May be repeated each semester. Two hours toward graduation for non-Music majors. Course fee required. Fall Spring.

MUS 15101 01 Violin  
MUS 15101 02 Viola  
MUS 15101 03 Violoncello  
MUS 15101 04 Double Bass  
MUS 15101 05 Guitar  
MUS 15101 06 Flute  
MUS 15101 07 Oboe  
MUS 15101 08 Bassoon  
MUS 15101 09 Clarinet  
MUS 15101 10 Saxophone  
MUS 15101 11 Trumpet  
MUS 15101 12 French Horn  
MUS 15101 13 Trombone/Euphonium  
MUS 15101 14 Tuba  
MUS 15101 15 Percussion

MUS 16101 Voice Lab Practicum (1 Credit Hour). Individual lessons. May be repeated each semester. Two hours toward graduation for non-Music majors. Course fee required. Prerequisite: Permission of the instructor. Fall Spring.

MUS 17201 Piano Class I (1 Credit Hour). This course is a beginning class in basic piano technique for students without previous training. It includes the application of the fundamentals of music (treble and bass clef, notes, scales, chords, meter, etc.) to piano playing. Fall.

MUS 18101 Jazz Ensemble (1 Credit Hour). This is an instrumental group which performs regularly on-and-off campus and specializes in jazz music and emphasizes improvisation. Quality music is programmed. Rehearsals are planned to challenge each student, encourage individual improvement, and achieve quality group performances. Original compositions by members of the group are often performed. An audition is required. May be repeated each semester. Fall Spring.

MUS 18301 Rock Ensemble (1 Credit Hour). This is an instrumental group consisting of guitars, bass, drums, keyboards, and vocalists and specializes in rock music. An audition is required. This course will provide an ensemble that fulfills the minor ensemble requirement for the growing number of students whose major instrument does not fit well within the other minor ensembles that are available. This course may be repeated each semester. Fall Spring.

MUS 19101 Grande Chorale (1 Credit Hour). This is a jazz/pop/chamber vocal ensemble with instrumental accompaniment. All interested students are encouraged to audition at the end of the spring semester for the following year. Students can obtain audition information by contacting the Director of Choral Music. Grande Chorale sings at many university events as well as area civic and social organizations, schools, senior citizen centers, and churches. They also tour extensively throughout Ohio, the tri-state area, and the entire east coast from New England to Florida. Grande Chorale has performed on a Caribbean cruise ship to Cozumel, Mexico and has toured the British Isles. Rehearsals are planned to challenge each student, encourage individual improvements, and achieve quality group performances. An audition is required. May be repeated each semester. Fall Spring.

MUS 20003 Music in the Curriculum (3 Credit Hours). This course is a detailed study of procedures, methods, and techniques of presenting experiences in music for learners from ages three to twelve. Practical activities involving all students include singing, creating, improvising, composing, playing instruments, listening, describing, and evaluating. Special consideration will also be given to MENC content standards, and comparing, relating, and integrating music across subject areas and with other cultures. For non-music majors only. Fall Spring.

MUS 20302 Aural Training III (2 Credit Hours). This course covers the development of skills in writing, aural recognition, and performance intervals, scales, rhythms, melodies, and harmonies through sight-singing, drills, and dictation. Secondary dominants are emphasized. Two hours class, one hour lab. Prerequisite: MUS 10402. To be taken concurrently with 22103. Fall.

MUS 20402 Aural Training IV (2 Credit Hours). This course covers the development of skills in writing, aural recognition, and performance intervals, scales, rhythms, melodies, and harmonies through sight-singing, drills, and dictation. Augmented sixth, Neapolitans, and modal mixture are emphasized. Two hours class, one hour lab. Prerequisite: MUS 20302. To be taken concurrently with MUS 22203. Spring.

MUS 20502 Class Voice (2 Credit Hours). This course is designed to enable all levels of voice students to teach basic voice techniques to students. Classroom teaching strategies are discussed. Voice placement, breathing, tone, dictation, phrasing, and other vocal skills are stressed through the use of correlated group vocalization and song literature. Fall 2012.

MUS 20802 Brass Methods (2 Credit Hours). This course is the beginning instruction in trumpet, French horn, trombone, baritone, and tuba. Classroom teaching strategies are also discussed. Possible rental fee required. Prerequisite: MUS 12103 or permission of the instructor. Course fee required. Fall 2012.

MUS 20902 String Methods (2 Credit Hours). This course is the beginning instruction in violin, viola, cello, and bass. Classroom teaching strategies are also discussed. Possible rental fee required. Prerequisite: MUS 12103 or permission of the instructor. Course fee required. Fall 2012.
MUS 20102 Woodwind Methods (2 Credit Hours). This course is the beginning instruction in clarinet, saxophone, flute, oboe, and bassoon. Classroom teaching strategies are also discussed. Possible rental fee required. Prerequisite: MUS 12103 or permission of the instructor. Course fee required. Fall 2011.

MUS 21102 Percussion Methods (2 Credit Hours). This course is the beginning instruction in timpani, snare drum, and mallet instruments. Students also study techniques for playing percussion instruments common to the general music class. Classroom teaching strategies are also discussed. Possible rental fee required. Prerequisite: MUS 12103 or permission of the instructor. Course fee required. Spring 2013.

MUS 22103 Music Theory III (3 Credit Hours). This course is a study of the written language of music as related to the traditional practice of the Western art from the 17th through 19th centuries. Analytical and writing skills are systematically developed. Neapolitan, borrowed chords, and sixth chords are emphasized. Formal structure, upper partial chords, and altered chords are studied. Prerequisite: MUS 12203. To be taken concurrently with MUS 20302. Fall 2011.

MUS 22203 Music Theory IV (3 Credit Hours). This course is a study of the written language of music as related to both traditional and non-traditional practices of the Western art. Twentieth century musical trends and techniques are explored. Non-Western art forms are also explored. Prerequisite: MUS 12203. To be taken concurrently with MUS 20402. Spring.

MUS 27101/37101 Composition (1 Credit Hour). Individual lessons in composition. Composers and works from the literature will be studied, and students will create their own compositions. May be repeated each semester. May count three hours towards graduation. Prerequisite: MUS 22303 or permission of the instructor. Fall Spring.

MUS 28801-05 Selected Topics in Music (1 to 5 Credit Hours). This course is a study of topics not included in other course offerings. The field of study may be selected by the student and the instructor, and to prepare the student to be a better teacher. Open to Music or Fine Arts majors. Prerequisite: Permission of the instructor. On Demand

MUS 29901-05 Directed Studies in Music (1 to 5 Credit Hours). This course is an independent study and/or research under the supervision of an instructor of Music. It may include directed research and readings, formal in depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their applications are brought together in a single education experience. Prerequisites: Freshman or Sophomore standing, sponsorship by the instructor, and approval of the School Chair. On Demand

MUS 30102 Form and Analysis (2 Credit Hours). In this course, techniques for analysis of the standard musical forms are developed. Principles underlying binary, ternary, rondo, variation, sonata, and other forms are detailed. Prerequisite: MUS 22203. Fall 2010.

MUS 30402 Music Technology (2 Credit Hours). This course offers an introduction to digital audio production. Topics covered will include: hardware and software sequencing; recording techniques; hardware and software digital mixing; digital mastering; and audio CD production. Spring 2013.

MUS 30502 Conducting I (2 Credit Hours). This course covers the presentation and development of basic conducting skills, including baton technique, score preparation and interpretation, musical styles, and rehearsal procedures. All instrumental ensembles will be studied with emphasis on band and orchestra. Practical experience conducting university ensembles is an important component. Prerequisite: MUS 12203. Fall 2011.

MUS 33103 Music History I (3 Credit Hours). This course is a broad survey of music throughout Western history with specialization in the composers, literature, styles, and performance mediums from the medieval period through the Baroque period. Prerequisite: MUS 12203 or permission of the instructor. Fall 2011.

MUS 33203 Music History II (3 Credit Hours). This course is a broad survey of music throughout Western history with specialization in the composers, literature, styles, and performance mediums from the Classic period through the twentieth century. Prerequisite: MUS 12203 or permission of the instructor. Spring 2012.

MUS 34101 Piano Lab Practicum (1 Credit Hour). Individual lessons. May be repeated each semester. Two hours toward graduation for non-Music majors. Course fee required. Prerequisite: MUS 10601 or permission of the instructor. Fall Spring.

MUS 35101 Instrumental Lab Practicum (1 Credit Hour). Individual lessons. May be repeated each semester. Two hours toward graduation for non-Music majors. Course fee required. Prerequisite: MUS 15101 or permission of the instructor. Fall/Spring.

MUS 35101 01 Violin
MUS 35101 02 Viola
MUS 35101 03 Violoncello
MUS 35101 04 Double Bass
MUS 35101 05 Guitar
MUS 35101 06 Flute
MUS 35101 07 Oboe
MUS 35101 08 Bassoon
MUS 35101 09 Clarinet
MUS 35101 10 Saxophone
MUS 35101 11 Trumpet
MUS 35101 12 French Horn
MUS 35101 13 Trombone/Euphonium
MUS 35101 14 Tuba
MUS 35101 15 Percussion

MUS 36101 Voice Lab Practicum (1 Credit Hour). Individual lessons. May be repeated each semester. Two hours toward graduation for non-Music majors. Course fee required. Prerequisite: MUS 16101 or permission of the instructor. Fall Spring.

MUS 40102 Conducting II (2 Credit Hours). This course covers the presentation and development of basic conducting skills relative to all types and sizes of choral groups. Special emphasis is given to choral fundamentals and techniques, vocal development, diction, musical styles, and choral rehearsal and performance practices. Practical experience conducting university ensembles is an important component. Prerequisite: MUS 12203 and MUS 30502 or permission of the instructor. Spring 2012.

MUS 40302 Instrumental Arranging (2 Credit Hours). This course is a study of the techniques of arranging music for the different instrumental ensembles common to the public schools. Techniques for marching concert band, jazz, and orchestral ensembles are included. Final project will be presented to a university ensemble for a read-through/critique. Prerequisite: MUS 22203. Fall 2013.
MUS 44502 Early to Middle Childhood Music Methods (2 Credit Hours). This course covers the principles, methods, and materials of music instruction for learners from Head Start/pre-kindergarten through grade eight. Philosophies, concepts, procedures, and techniques of Orff, Kodaly, Dalcroze, Gordon, and Multiple Intelligences theory are covered in considerable detail. Special consideration is given to Music Educators National Conference (MENC) content standards, and comparing, relating, and integrating music across subject areas and with other cultures. Ten clock hours of clinical/practicum experience is required. Prerequisite: MUS 12203. Fall 2012.

MUS 44602 Adolescent to Young Adult Music Methods: Choral (2 Credit Hours). This course covers the principles, methods, and materials of music instruction for learners in grade seven through age twenty-one. It includes an examination and review of Orff, Kodaly, Dalcroze, Gordon, and Multiple Intelligences theory. There will be emphasis on organization and implementation of vocal/choral programs, but will also include general music, music appreciation, and theory classes. Special consideration will also be given to MENC content standards. Ten clock hours of clinical/practicum experience is required. It is strongly suggested that if you are not already a member of Music Educators National Conference and/or the American Choral Directors Association that you become a member now while you are training to be a music educator and while you can pay the student membership price. Also, that you attend either the MENC and/or the ACDA Convention. Prerequisite: MUS 12203. Fall 2011.

MUS 44702 Adolescent to Young Adult Music Methods: Instrumental (2 Credit Hours). This course covers the principles, methods, and materials of music instruction for learners in grades seven through age twenty-one. There will be emphasis on organizational and implementation of instrumental programs. Special consideration will also be given to MENC content standards. Ten clock hours of clinical/practicum experience is required. It is strongly suggested that if you are not already a member of Music Educators National Conference and/or the Ohio Bandmasters Association that you become a member now while you are training to be a music educator and while you can pay the student membership price. Also, that you attend either the MENC and/or the ACDA Convention. Prerequisite: MUS 12203. Fall 2012.

MUS 48801-05 Selected Topics in Music (1 to 5 Credit Hours). This course is a study of topics not included in other course offerings. The field of study may be selected by the student and the instructor. Open to Music or Fine Arts majors. Prerequisite: Permission of the instructor. May be repeated. On Demand

MUS 49003 Music Business Internship (3 Credit Hours). On the job training through special arrangement. The student will intern in his/her chosen specialty: retail, recording, or arts management. The internship will be arranged with external facilities by the student and his/her advisor. Prerequisite: Senior standing and permission of the Music Department Coordinator. On Demand

MUS 49501 Senior Music Activity (1 Credit Hour). Students prepare and present a recital, lecture-recital, or project (see Additional Requirements for Music Majors). On Demand

MUS 49901-05 Directed Studies in Music (1 to 5 Credit Hours). This course is an independent study and/or research under the supervision of an instructor of Music. It may include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their applications are brought together in a single educational experience. Prerequisites: Junior or Senior standing, sponsorship by an instructor, and approval of the School Chair. On Demand

NSC - Natural Science

NSC 12303 Descriptive Astronomy (3 Credit Hours). This course is a survey of astronomy including an introduction to the solar system, stellar astronomy, galaxies, and cosmology. Introduction to the use of a telescope with some laboratory problems designed to familiarize the students with the art of celestial observation. Course fee required. Fall Spring

NSC 20303 Physical Geology (3 Credit Hours). This course covers the materials and structures of the earth’s crust, the forces that shape the surface of the earth, and the geologic/topographical features these forces produce. Course fee required. Spring 2012

NSC 22304 (TM) Environmental Science (4 Credit Hours). This is an interdisciplinary course that emphasizes the impact of humans on the environment. The course begins with a study of the structure and function of ecosystems. Then various environmental problems are examined including population growth, food supply, energy issues, water issues, air pollution, extinction, solid waste disposal, and hazardous materials. Students examine how culture and technology affect environmental policies. Students also do several group activities that require value judgments and decision-making about environmental issues. Three hours lecture, two hours lab. Course fee required. Fall Spring

NSC 22403/42403 Introduction to Biological Anthropology (3 Credit Hours). This course is an introductory survey of human physical variation with an emphasis on human skeletal variation, modern human population, and non-human primates. Course fee required. Fall Spring

NSC 23101 Environmental Practicum (1 Credit Hour). This course is a practicum. The student will spend thirty (30) hours with a local environmental agency. The student will write a report of their experiences and be evaluated by an agency supervisor. Course fee required. Prerequisite: Professor permission only. NSC 22304. Fall Spring

NSC 28801-03 Selected Topics in Natural Science (1 to 3 Credit Hours). This course is a study of topics not included in other course offerings. Prerequisite: Permission of instructor and School Chair. On Demand

NSC 29901-03 Directed Studies in Natural Science (1 to 3 Credit Hours). This course is an independent study and/or research under the supervision of an instructor of Natural Science. It may include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisite: Permission of instructor and School Chair. On Demand

NSC 31303 Comm Environmental & Natural Resources (3 Credit Hours). This course examines concepts and practices to communicate environmental and natural resources technical information. Oral and written formats currently used for scientific conferences and publications (both agency and peer-reviewed) will be emphasized. Prerequisites: ENG 11103 or equivalent, ENG 11203 or equivalent, and COM 11103 or equivalent with C or better. Hocking Campus Only. Spring
NSC 33202 Laboratory Management (2 Credit Hours). This course is designed for the prospective teacher of a laboratory science. Topics include: lab safety; legal issues; ordering supplies and equipment; inventory; planning, conducting, and evaluating a laboratory experience; and the proper and ethical treatment of living organisms. Students are required to plan, implement, and evaluate a laboratory activity and to work with a college faculty member as a laboratory assistant for one semester in an introductory-level course in Biology, Chemistry, or Physics. One hour of class per week. Prerequisites: Three courses in one of the sciences (Biology, Chemistry, or Physics), or permission of the instructor. Spring 2012

NSC 38801-03 Selected Topics in Natural Science (1 to 3 Credit Hours). This course is designed to extend the knowledge of Natural Science from the basic to the complex. Topics may include: biochemistry, relativity, atomic physics, nuclear physics, or environmental issues. Prerequisite: CHM 15505 and/or PHY 17505 and/or NSC 22304 or permission of instructor and School Chair. On Demand

NSC 42403 Introduction to Biological Anthropology (3 Credit Hours). This course is an introductory survey of human physical variation with an emphasis on human skeletal variation, modern human population, and non-human primates. Dual-listed as NSC 22403 and cross-listed as ATH 42403. Fall Spring

NSC 43101 Lab Experience (1 Credit Hour). This course is a practicum. The student spends thirty (30) hours working for a science faculty member for a particular science lab course. The student will be present during all labs for ONE section of the course. The student will also be responsible for preparing and teaching at least one lab. This student will write a report of their experience and be evaluated by the instructor. Prerequisites: Permission of instructor, 3.00 GPA or above in science. Fall Spring

NSC 45303 Integrated Science (3 Credit Hours). This is a capstone course for science majors. Topics include: contemporary events and current research results from Biology, Chemistry, and Physics. Each topic will be approached in an interdisciplinary manner that includes historical background, contributions from various cultures, major findings, technology used, and societal implications. Each student will be involved in an inquiry-based research project that involves lab or field data collection, statistical analysis, and interpretation of results. Prerequisite: Junior/Senior standing with a major/minor in Biology, Chemistry, Environmental Science, or Physics; or teacher licensure in adolescent to young adult or middle childhood concentration in science. Fall 2011

NSC 49808 Environmental Internship (8 Credit Hours). In this course, the student will work for a ten-week period (400 hours) as an intern in an environmental position approved by the Field Placement Coordinator. The student will learn the duties and responsibilities of the position, the organizational structure of the agency/business, and gain practical work experience. Prerequisites: Senior Environmental Science Major and permission of Field Placement Coordinator. On Demand

NSC 49901-04 Directed Studies in Natural Science (1 to 4 Credit Hours). This course is an independent study and/or research under the supervision of an instructor of Natural Science. It may include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Junior or Senior standing, and permission of instructor and School Chair. On Demand

NUR 10101: Trends I. (1 Credit Hour) This course introduces the nursing student to the Philosophy and Conceptual Framework of the University of Rio Grande-Holzer School of Nursing, ANA Code of Ethics, and ANA Standards of Clinical Nursing Practice as a foundation for the practice of nursing. Additional topics discussed are: continued lifelong learning; role of the nurse throughout history; and educational processes for nurses in the United States. One hour class. Prerequisite: Official acceptance into the School of Nursing Program. Fall

NUR 10505: Nursing I. (1 Credit Hour) The theory content of this course introduces the nursing student to the roles of the associate degree registered nurse and the standards of clinical nursing practice. Critical to this discussion is the introduction of basic human needs, growth and developmental theories, patient rights, communication, nursing process, and nursing skills necessary for the delivery of health care. The clinical component of this course utilizes health care delivery settings in both acute and extended care to provide the student an opportunity to use the nursing process to provide basic nursing care to adult patients. Three hours class, six hours lab. Course fee required. Prerequisites: Official acceptance into the School of Nursing Program and current and valid CPR card. Fall

NUR 10606: Nursing II. (6 Credit Hours) The theory content of this course introduces the nursing student to function in the role of the associate degree registered nurse in providing nursing care to adult patients in acute care settings; and childbearing patients and neonates in maternal family settings. Critical to this discussion is the introduction of teaching-learning. Further developed are effective communication skills; the use of the nursing process to plan, implement, and evaluate nursing care; and the use of growth and developmental theories to identify various stages of the life cycle with emphasis on the neonate. The clinical component of this course utilizes: (1) acute care and ambulatory health care delivery settings to provide nursing care to adult patients undergoing surgical interventions; and (2) maternal family settings to provide nursing care to the childbearing patients and the neonate. Four hours class, six hours lab. Course fee required. Prerequisite: NUR 10505 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, NUR 10101 with a grade of “C” or better, NUR 11101 with a grade of “C” or better, NUR 12101 with a grade of “C” or better, and BIO 10104 with a grade of “C” or better. Spring

NUR 11101: Pharmacology Math. (1 Credit Hour) This course introduces the nursing student to math skills necessary for medication dosage calculation. Concepts discussed are: legal/ethical accountability related to medication administration; and use of the nursing process in medication administration. Upon completion of the course, the student demonstrates proficiency in medication dosage calculation. One hour class. Prerequisite: Official acceptance into the School of Nursing Program. Concurrently taken with Nursing 10505. Fall

NUR 13101: Nursing Technology and Resource Strategies. (1 Credit Hour) This course provides practical tips, resources, and information to help students succeed in nursing school. Learning styles, time management, study and test-taking skills, medical terminology, and stress management will be investigated. Students will identify resources in the School of Nursing and on-campus that can assist with their success in the Program. Nursing students will be introduced to the hands-on use of computers in healthcare settings. Students will explore the use of computers to effectively
communicate and collaborate with members of the multidisciplinary healthcare team. Emphasis is placed on the importance of life-long learning, resources that aid the teaching-learning process, and the responsibility and accountability for maintaining confidentiality of patient information. Fall

NUR 13606: Nursing Science Transition Course. (6 Credit Hours) The content of this course builds upon the knowledge related to biological sciences learned in their Licensed Practical Nurse (LPN) or Licensed Vocational Nurse (LVN) educational process. This knowledge is necessary to provide a foundation for understanding disease processes discussed in future nursing courses. Content includes topics related to homeostasis; health promotion, maintenance, and restoration; microbiology, anatomy; physiology; body systems; and immunology principles. Spring Summer I

NUR 14606: Nursing Theory Transition Course. (6 Credit Hours) The content of this theory course is built upon the nursing theory that the student received in their LPN/LVN educational process. Students are introduced to the Philosophy and Conceptual Framework of the University of Rio Grande-Holzer School of Nursing as well as ANA Standards of Clinical Nursing Practice and ANA Code of Ethics. Nursing process, the eight basic human needs, growth and developmental theories, principles of teaching-learning, and effective communication skills are presented. Also discussed is the role of the associate degree registered nurse to critically think, communicate, and provide safe effective nursing care to patients experiencing needs related to fluid and electrolyte balance; acid-base balance; the renal system; the integumentary system; and the sensory perceptual systems. Spring Summer I

NUR 20505: Nursing III. (5 Credit Hours) The theory content of this course introduces the nursing student to function in the role of the associate degree registered nurse in providing nursing care to adult patients in acute care settings experiencing needs related to fluid and electrolyte balance; acid-base balance; the renal system; the integumentary system; and the sensory perceptual systems. Growth and developmental concepts are further discussed with emphasis on infants and children. The nursing process, communication and collaboration skills, use of technology, teaching-learning, and legal/ethical principles of nursing practice are continued. The clinical component of this course utilizes: (1) acute care health care delivery settings to provide nursing care to adult patients; and (2) community settings to provide interactions with children. Four and one-half hours class, nine hours lab. Course fee required. Prerequisite: NUR 10606 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, BIO 10204 with a grade of “C” or better and PSY 11303. Summer

NUR 21404: Nursing IV. (4 Credit Hours) The theory content of this course introduces the nursing student to function in the role of the associate degree Registered Nurse in providing nursing care in mental health care settings to adults experiencing emotional health care needs. Growth and developmental concepts are further discussed with emphasis on the adolescent. The nursing process, therapeutic communication and collaboration skills, use of technology, teaching-learning, and legal/ethical principles of nursing practice are continued. The clinical component of this course utilizes mental health care settings to provide nursing care to adult patients. Fall Summer

NUR 21707: Nursing V. (7 Credit Hours) The theory content of this course introduces the nursing student to function in the role of the associate degree registered nurse in providing nursing care to children, adolescents, and adult patients experiencing needs related to the respiratory system; the gastrointestinal system; the cardiovascular system; the liver/biliary system, nervous system, and the reproductive system. Growth and developmental concepts are further discussed with emphasis on the young and middle-aged adult. The nursing process, communication and collaboration skills, use of technology, teaching-learning, and legal/ethical principles of nursing practice are continued. The clinical component of this course utilizes acute health care delivery settings to provide nursing care to children, adolescents, and adult patients. Five hours class, six hours clinical. Course fee required. Prerequisite: NUR 20505 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance or successful completion of NUR 14606, COM 11103 and ENG 11103. Fall

NUR 22101: Trends II. (1 Credit Hour) This course provides an overview to assist the student in the transition to the role of the registered nurse. Current health care trends and issues and their implications for members of the multidisciplinary health care team are explored. Additional topics discussed are: continued lifelong learning related to professional development and educational requirements to maintain licensure as a registered nurse; an overview of professional organizations that represent the nursing profession; the role of State Boards of Nursing; and an introduction of the American political process related to healthcare and the role of the nurse as an informed constituent. One hour class. Prerequisite: NUR 21707 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, NUR 21404 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, ENG 11203, SOC 11103. Spring

NUR 22111: Nursing VI. (11 Credit Hours) The theory content of this course focuses on the role of the associate degree registered nurse as communicator, provider, and manager of safe effective care to patients experiencing needs related to the immune system; the endocrine system; the musculoskeletal system; and neoplastic disorders. Growth and developmental concepts are further discussed with an emphasis on older adults. The nursing process, communication and collaboration skills, use of technology, teaching-learning, and legal/ethical principles of nursing practice are continued. The clinical component utilizes acute care, including critical care areas to provide the student the opportunity to assist patients in promoting, restoring, and maintaining health. Students are provided with an introduction to the role of the community health nurse. Clinical assignments are selected to assist the student with the role transition from student to registered nurse. Clinically, the student functions as a: a) provider of care for small groups of patients; b) team leader; c) team member; and d) preceptee with an experienced registered nurse. Six hours class, fifteen hours lab. Course fee required. Prerequisite: NUR 21707 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, NUR 21404 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, ENG 11203, SOC 11103. Spring

NUR 28801-10: Selected Topics in Nursing. (1 to 10 Credit Hours) A study of topics not included in current nursing course offering or topics of more in-depth study than covered in current nursing courses. The format may be independent of directed studies, a research paper, a community activity or project, a scheduled class, or a seminar. The course may be repeated for credit upon change of the course topic. The topic/project may be selected by a group of students and/or the nursing instructor. Course fee required. Prerequisite: Approval of the nursing instructor and the Dean of the College of Liberal Arts & Sciences. On Demand.
NUR 28805: ST: Medical Surgical Nursing II. (5 Credit Hours)
The theory content of this course focuses on the role of the associate degree registered nurse as communicator, provider, and manager of safe effective care to patients experiencing needs related to the musculoskeletal system and leadership and management. Students are provided with an introduction to the role of the community health nurse. Clinical assignments are selected to assist the student with the role transition from student to registered nurse. Clinically, the student functions as a: a) provider of care for small groups of patients; b) team leader; c) team member; and d) preceptor with an experienced registered nurse. Two hours class, nine hours lab. Course fee required. Prerequisite: NUR 28806 with a grade of “C” or better in theory and a satisfactory designation for clinical performance. Internet Only

NUR 28806: ST: Medical Surgical Nursing I. (6 Credit Hours)
The theory content of this course focuses on the role of the associate degree registered nurse as communicator, provider, and manager of safe effective care to patients experiencing needs related to the immune system; the endocrine system; blood and blood forming; and neoplastic disorders. The student nurse is introduced to the role of the registered nurse leading and providing nursing care to humans whose illness is more complex in nature. Growth and developmental concepts are further discussed with an emphasis on older adults. The nursing process, communication and collaboration skills, use of technology, teaching-learning, and legal/ethical principles of nursing practice are continued. The clinical component utilizes an acute care setting, to provide the student the opportunity to assist patients in promoting, restoring, and maintaining health. Clinical assignments are selected to assist the student to begin to explore the characteristics and responsibilities of leadership. The student further explores the transition from a student nurse to the role of the nurse through opportunities to plan and provide nursing care for small groups of patients. Four hours class, six hours lab. Course fee required. Prerequisite: NUR 21707 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, NUR 21404 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance. Internet Only

NUR 30303 Concepts of Professional Nursing. (3 Credit Hours)
This transition course focuses on an introduction to the Philosophy and Conceptual Framework of the University of Rio Grande-Holzer School of Nursing, the health care delivery system, and the clinical decision-making process (nursing process). Emphasis is placed on transition to the professional nursing role in the care of self, individuals, families, groups, and communities. An introduction to nursing theorists, philosophies, theories, and frameworks is also presented. Note: The National League for Nursing (NLN) RN-Mobility Profile II (Books One, Two, and Three) Exam is given during this course and is required of all students. Three hours class. Prerequisite: Graduate of a State Board of Nursing approved prelicensure R.N. associate degree or diploma program in nursing. Note: Prospective students who are not yet officially accepted into the RN-BSN Program may enroll in this course. Fall

NUR 30808 Clinical Decision Making. (8 Credit Hours) This course is designed to provide the RN-BSN student with the skills to perform a complete holistic health assessment and to plan nursing care for the individual. Specific attention is given to the development of skill used for comprehensive history taking and physical examination. Emphasis is on the assessment of the individual with appropriate analysis and interpretation of the data collected from individual families and groups. The aging process, common health alterations, and cultural influences are discussed. Concepts introduced relate to physiologic, psychologic, and social issues pertinent to the aging population that relate to health care practices. These concepts are used to choose implementation strategies and to evaluate nursing care. Five hours class, nine hours lab. Prerequisites: Current Ohio R.N. license and nursing professional liability insurance, NUR 30303 with a grade of “C” or better, and BIO 44303. Spring

Nursing 31303: Healthcare Ethics. (3 Credit Hours) The focus of this course is to assist the student to develop sensitivity to ethical areas in nursing practice. The student will examine his/her own values and patients’ values in order to provide appropriate nursing care. Understanding of how values influence decisions about health care will be discussed. Future moral problems that nurses are likely to face are introduced. The influence of values and moral frameworks on the ethical dimension of nursing practice and on the nurse’s role as a patient advocate is also explored. Fall

NUR 31404 Issues in Nursing Practice I. (4 Credit Hours) The focus of this course is to assist the BSN student to understand health care delivery where he/she practices and to develop an awareness of issues that affect patients in common practice settings. Contemporary issues that have an impact on society, health, and nursing practice will be discussed. Spring

Nursing 40111: Nursing Leadership and Nursing in the Community. (11 Credit Hours) This course serves as the capstone course and focuses on the role of the nurse in the delivery of nursing care to the community, which is viewed as a unit. The professional leadership role to synthesize major curriculum concepts is explored and developed. Health care needs, delivery patterns, services, and resources are identified and analyzed. The community is assessed in relation to cultural and environmental influences, such as epidemiology, substance abuse, and violent behavioral patterns. A family theory perspective is used to identify such concepts as family communication patterns, types of families, loss, grief, and family violence. Strategies to assist families and the community are discussed. Students discuss and define various roles within leadership, such as manager, teacher, participant in care delivery, and change agent. Major topics of discussion include: leadership styles, group dynamics, collaborative practice, organizational structure, management processes, management styles, and change. Structured and unstructured health care environments are utilized to provide clinical experience for students with individuals, families, groups, and communities. Spring

NUR 40303 Nursing Research. (3 Credit Hours) This course provides basic content in the role and the use of nursing research in day to day practice settings. The steps of the research process are presented as well as major research approaches. Students study and critique selected examples of nursing research. Retrieval of library information is reviewed. Utilization of computerized statistical packages is introduced. Students design a small investigative study which has implications for nursing. Fall

Nursing 41303: Issues in Nursing Practice II. (3 Credit Hours) This course is concurrent with NUR 40111 and integrates all issues presented in the previous nursing issues course. Discussion revolves around how nurses can positively influence health care. Major issues to be presented include but are not limited to: Political strategies to change health care, governmental issues related to health care, funding for health care, conflict and health care fraud. Spring

Nursing 41404: Transcultural Nursing. (4 Credit Hours) The focus of this course is to provide the student with tools for effective delivery of health care for people of different cultures. The student will develop an awareness of the influence of economic, political, and social factors on access to health care of selected cultural groups. Fall
OT - Office Technology

OT 10003 Beginning Keyboarding (3 Credit Hours) This is a developmental course for students who are not proficient in keyboarding or who have never typed. The course is designed to help students use proper techniques to key accurately and rapidly on keyboard-activated equipment (typewriter and personal computer); to format basic business letters, memoranda, reports, and simple tabulation; and to improve keyboarding speed and accuracy. Students are expected to attain a speed of 40-55 wpm for five minutes. Prerequisite: OT 10003. Fall

OT 10303 Shorthand I (3 Credit Hours) This is a beginning course for students who are not proficient in shorthand. Emphasis is placed on mastery of shorthand theory, brief forms, phrases, and principles of Gregg Shorthand with dictation and transcription of easy, familiar material at 30-50 wpm for one minute. Three hours lecture. Course fee required. Fall

OT 10403 Keyboarding I (3 Credit Hours) The students develop and refine the following: speed and accuracy; skills and techniques; and preparation of business letters, envelopes, manuscripts, outlines, business forms, and complex tabulation. This course also stresses the correct grammar and punctuation usage in all documents keyed or composed by the office professional. Students are expected to attain a speed of 40-55 wpm for five minutes. Prerequisite: OT 10003 or proficiency test. Two hour lecture, two hours lab. Course fee required. Fall

OT 11303 Shorthand II (3 Credit Hours) This is a continuation of OT 10303. Emphasis is placed on accuracy, speed building, and dictation and transcription of previewed material at 40-60 wpm for one to two minutes. Prerequisite: OT 10303 or equivalent. Three hours lecture. Course fee required. Spring

OT 11403 Keyboarding II – Executive (3 Credit Hours) This course is designed for the development of a high degree of competence in preparing business letters, complicated tabulations, and business forms with special attention to speed and accuracy. Students are expected to attain a speed of 55-65 wpm for five minutes. Prerequisite: OT 10403. Two hours lecture, two hours lab. Course fee required. Spring

OT 11503 Keyboarding II – Legal (3 Credit Hours) Production typing is stressed in this course with emphasis on training students for a legal office assistant position. This course is designed for the development of a high degree of competence in the use of legal terminology and in the keying of legal documents, forms, and correspondence. Students are expected to attain a speed of 55-65 wpm for five minutes. Prerequisite: OT 10403. One hour lecture, four hours lab. Course fee required. Spring

OT 11603 Keyboarding II – Medical (3 Credit Hours) Production typing is stressed in this course with emphasis on training students for a medical office assistant position. This course is designed for the development of a high degree of competence in the use of medical terminology and in the keying of medical documents, forms, and correspondence. The students will also gain hands-on experience in medical record keeping for a physician’s office through the use of a computerized and manual patient billing and recordkeeping simulation. Students are expected to attain a speed of 55-65 wpm for five minutes. Prerequisite: OT 10403. One hour lecture, four hours lab. Course fee required. Spring

OT 21303 Shorthand III (3 Credit Hours) Emphasis is placed on production of mailable letters, expanding the shorthand vocabulary, taking sustained and office-style dictation of new material, and building speed to 60-100 wpm for one to two minutes. Prerequisite: OT 11303. One hour lecture, four hours lab. Course fee required. Fall

OT 23202 Office Machines (2 Credit Hours) This course is designed for the practice and development of skill in the use of various office machines including electronic printing and display calculators, with a review of basic math operations; copying equipment; fax; electronic typewriters; computer data entry; and an introduction to machine transcription. Prerequisite: OT 10003 or equivalent. One hour lecture, two hours lab. Course fee required. Fall

OT 24202 Records/Database Management (2 Credit Hours) Indexing procedures and rules developed by ARMA that apply when working with computer or paper files are taught. Emphasis is placed on the four filing methods (Alphabetic, Numeric, Subject, and Geographic), as well as the principles of storage, retention, transfer, and disposition or records. In this course the students will be introduced to database management on the microcomputer. Prerequisite: OT 10003 or keyboarding proficiency test. One hour lecture, two hours lab. Course fee required. Spring

OT 27103 Executive Machine Transcription (3 Credit Hours) This is a beginning to intermediate course for students to acquire the skills necessary to transcribe from recordings (tapes) using a computer. Students will develop an awareness of the various career opportunities available for those with transcription skills in the fields of banking, advertising, financial, travel, insurance, education, government, etc. Prerequisite: OT 11403. Two hours lecture, two hours lab. Course fee required. Spring

OT 27203 Legal Machine Transcription (3 Credit Hours) Emphasis is placed on formatting legal correspondence and documents transcribed from a dictation tape into mailable format. Students become familiar with documents and correspondence common to specific legal proceedings. Hands-on experience is gained through the transcribing of ten legal cases, each relating to a different area of law. Students should be proficient in keyboarding before beginning this course. Prerequisite: OT 11503. Two hours lecture, two hours lab. Course fee required. Spring

OT 27303 Medical Machine Transcription (3 Credit Hours) This is a beginning medical transcription course designed to provide students with a working knowledge of the transcription of medical reports from dictated tapes. The students will complete inpatient and outpatient reports dealing with ten different specialty areas. Students should be proficient in keyboarding and have a working knowledge of transcription equipment before beginning this course. Prerequisites: OT 10403, OT 13302, and OT 14302. Two hours lecture, two hours lab. Course fee required. Spring
OT 28202 Office Practicum (2 Credit Hours) This course is an integration of precise skills, human behavior, and office procedures, which are requisites of professional office personnel in a working situation. Students gain practical office experience in faculty and administration offices on campus or in an off-campus site related to their major field of study. Prerequisite: Advanced standing in the Office Technology program or permission of the instructor. One hour lecture and sixty (60) hours of supervised work experience. Fall, Spring

OT 28303 Word/Information Processing Applications I (3 Credit Hours) Students learn Microsoft Excel software. The topics covered include basic create functions to more advanced features. Prerequisite: OT 10003 or evidence of keyboarding skills. Two hours lecture, two hours lab. Course fee required. Fall

OT 28403 Word/Information Processing Applications II (3 Credit Hours) This word processing class incorporates the preparation and production of documents using automated equipment (personal computer) and Microsoft Word software. Topics covered include basic “create-edit-print” cycle to more advanced features such as merging documents, creating and editing tables, working with graphics, creating and using macros, and sorting. Prerequisite: OT 10003 or evidence of keyboarding skills. Two hours lecture, two hours lab. Course fee required. Spring

OT 28801-03 Selected Topics in Office Technology (1 to 3 Credit Hours) This course is designed to be a study of topics not included in regular course offerings. The format for this course may be independent, directed study, or a scheduled class. Prerequisite: Permission of the instructor. Course fee may be required. On Demand

OT 29901-03 Directed Studies in Office Technology (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in office technology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing, the completion of at least six (6) hours of OT courses, and permission of the instructor. Course fee may be required. On Demand

PHR - Philosophy

PHR 21103 (TM) Philosophical Inquiry. (3 Credit Hours) This course is a philosophical inquiry into the basic questions and topics of philosophy, including questions about free will and determinism, art and beauty, human nature, knowledge and reality; justice and the good society; ethics and morality; logical and fallacious thinking; science and religion; gender and ethics, and comparisons between Eastern and Western modes of thought. Fall Spring

PHR 21203 Ethics. (3 Credit Hours) This course involves an examination of various moral issues (e.g. relativism vs. absolutism), concepts (e.g. duties, rights, values, principles, etc.) and ethical theories (e.g. utilitarianism, natural law, divine law theories, Kantian ethics, etc) and evaluation of contemporary moral issues such as sexual ethics, environmental ethics, genetics and ethics, euthanasia and abortion, justice and inequality, and animal rights. On Demand

PHR 21303 Business Ethics. (3 Credit Hours) Using business cases and philosophical readings, this course is intended to introduce students to an ethical examination of the various moral and policy issues surrounding contemporary business and corporate organizations. Issues to be examined include: moral responsibility in bureaucratic organizations; profits and morality; corporate responsibility and liability; employee rights and duties; theories of justice and executive compensation; social justice and the economic system of capitalism; current moral issues in the business world; and various public policy issues concerning business and the environment, corporate liability and consumer safety, ethics and advertising, and the pros and cons of government economic regulations. On Demand. Internet Only

PHR 21403 Medical Ethics. (3 Credit Hours) This course takes a case-study approach to medical ethics for nursing and pre-med students. Students are required to apply ethical theories and fundamental principles to various issues in medicine and the treatment of patients, including conflicts between medical paternalism and patient rights, public health and individual confidentiality rights, faith healing and conventional medicine, treatment of defective newborn, euthanasia, abortion, organ transplants, principles of justice and the allocation of scarce resources, the right to health care and various approaches to reforming the American health care system (e.g. national health insurance vs. market approaches, etc.). Spring. Internet Only

PHR 24103 Logic and Critical Thinking. (3 Credit Hours) This course examines the nature of good and bad reasoning, including an analysis of deductive and inductive reasoning, statistical and causal reasoning, and an analysis of language and fallacious thinking. On Demand

PHR 28801-03 Selected Topics in Philosophy. (1 to 3 Credit Hours) This course is the study of philosophical topics not included in other course offerings. The format for this course may be special projects, readings, a scheduled class, or a seminar. On Demand

PHR 29901-03 Directed Studies in Philosophy. (1 to 3 Credit Hours) This course is an independent study and/or research under the supervision of an instructor in Philosophy. It may include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing, the permission and cooperation of the supervising instructor in the discipline, and the approval of the Dean of the College of Arts and Sciences. On Demand

PHR 32103 Social and Political Philosophy. (3 Credit Hours) This course examines the history of social and political thought, as well as contemporary views. Some of the philosophers examined are Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Marx, Rawls, Nozick and Walzer. Emphasis is on the ideas of freedom, equality, justice, individual rights, government and the good society. On Demand

PHR 32203 Philosophy and Cultural Studies. (3 Credit Hours) This course examines the nature of interpretation, and various theories and methods of cultural and textual interpretation including Marxist, Freudian, historicist, semiotic, feminist, mythic, archetypal, and structuralist approaches. Students will learn how to apply these interpretations in an analysis of the “texts” of popular culture (e.g. movies, etc.) On Demand
PHR 32303 History of Philosophy. (3 Credit Hours) This course surveys the history and evolution of philosophy from ancient Greek and Far Eastern philosophy (e.g. Plato, Aristotle, Confucius and Lao-Tzu) through the medieval (e.g. Augustine and Aquinas), early modern (e.g. Descartes, Locke, Hobbes and Spinoza), eighteenth (Kant and Hume) nineteenth (Hegel, Marx, Nietzsche, James, etc.) and twentieth century (e.g. Sartre and Heidegger), ending with selections from contemporary philosophers. On Demand

PHR 33103 Symbolic Logic. (3 Credit Hours) This course consists of a study of truth-functional and prepositional logic. On Demand

PHR 35103 Knowledge and Reality. (3 Credit Hours) This course examines metaphysical and epistemological thought, considering such philosophers as Plato, Aristotle, the ancient Skeptics, Descartes, Montaigne, Hobbes, Bacon, Hume, Kant, Nietzsche, and contemporary philosophers and twentieth century views. On Demand

PHR 35203 Philosophy of Science. (3 Credit Hours) This course examines the logic, epistemology, and methodologies of the natural and social sciences. This course will explore a number of issues, including the relationship between observations, theories, and scientific laws; whether the methods of the natural sciences can be applied to the study of human beings and society; major theories in the history of science (Copernicus, Marx, Darwin, Freud, etc.) and special attention to issues in the philosophy of history and society. Fall

PHR 36102 World Religions. (2 Credit Hours) This course is a study of the history and teachings of eastern religions, including Islam, Hinduism, Buddhism, and Taoism. On Demand

PHR 36202 The Bible and Philosophy: The Old Testament. (2 Credit Hours) This course focuses on an intensive reading of the Old Testament with an examination of its philosophical, religious, ethical, and cultural ideas. On Demand

PHR 36302 The Bible and Philosophy: The New Testament. (2 Credit Hours) This course focuses on an intensive reading of the New Testament with an examination of its philosophical, religious, ethical, and cultural ideas. On Demand

PHR 47703 Seminar in Philosophy. (3 Credit Hours) This course is an advanced study of various important philosophical topics, including ethics and value systems, existentialism and literature, philosophy of mind, or the work of a specific philosopher. At the request of faculty in other disciplines and programs, topics specifically related to their philosophical concerns may be offered. On Demand

PHR 48801-03 Selected Topics in Philosophy. (1 to 3 Credit Hours) This course is the study of advanced philosophical topics not included in other course offerings. The format for this course may be special projects, readings, a scheduled class, or a seminar. On Demand

PHR 49901-03 Directed Studies in Philosophy. (1 to 3 Credit Hours) This course is an independent study and/or research under the supervision of an instructor in Philosophy. It may include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Junior or Senior standing, the permission and cooperation of a supervising instructor in the discipline, and the approval of the Dean of the College of Arts and Sciences. On Demand

PHT - Pharmacy Technician

PHT 10103 Pharmacy Technician I (3 Credit Hours). This course is designed to provide the student with the practical knowledge and skills needed to assist a registered pharmacist in providing healthcare and medications to patients. This course will provide a broad knowledge of pharmacy practice. Emphasis will be placed on the retail pharmacy setting. Course fee required. Professor permission required. Random drug screening will be required during the semester. Fall

PHT 10203 Pharmacy Technician II Clinical (3 Credit Hours). This is a practicum (internship) that requires at least 9 hours per week for 8 weeks in a retail pharmacy and 9 hours per week for 8 weeks in a hospital pharmacy for a total of 144 hours. Prerequisites: A grade of “C” or better in PHT 10103, PHT 11103, PHT 12103, and PHT 13203. Professor permission required. Course fee required. Spring or Summer

PHT 11103 Pharmacology for Health Care Related Careers I (3 Credit Hours). This course will present a basic understanding of drugs, including their mechanisms of action, properties, applications and side effects. The student will be expected to learn the brand name and generic names of at least one third of the most commonly prescribed drugs in the U.S. (about 200 drugs). Prerequisite: At least a “C” in high school or college Chemistry. Course fee required. Fall

PHT 11204 Pharmacology for Health Care Related Careers II (4 Credit Hours). This course is a continuation of Pharmacology for Health Care Related Careers I (PHT 11103). It will present the last two thirds of the most commonly prescribed drugs in the U.S. and their properties, applications, and side effects. Prerequisite: At least a “C” average in PHT 11103. Course fee required. Spring

PHT 12103 Applied Science for Health Care Related Careers I (3 Credit Hours). This course will include basic chemistry, physiology, and anatomy needed to gain a broad understanding of normal body functions. Special emphasis will be placed on disease states and abnormal body conditions to greater understand how drugs work to correct them. Subjects studied will include the skin, pain, and the Central Nervous System. Prerequisite: At least a “C” average in high school or college Biology. Course fee required. Fall

PHT 12203 Applied Science for Health Care Related Careers II (3 Credit Hours). This course will include basic microbiology, physiology, and anatomy needed to gain a broad understanding of normal body functions. Special emphasis will be placed on disease states and abnormal body conditions to greater understand how drugs work to correct them. Subjects studied will include the Immune system, the Cardiovascular System, the Respiratory System, the Endocrine System, the Gastrointestinal System, Nutrition, Infectious diseases, and Cancer. Prerequisite: At least a “C” average in Applied Science for Health Care Related Careers I (PHT 12103). Course fee required. Spring

PHT 13203 Pharmacy Math Calculations (3 Credit Hours). This course is designed to teach the student the necessary math skills to perform the calculations required by a pharmacy technician. A review of fractions, decimals, ratios and proportions will be quickly covered. Other topics include Metric conversions, temperature conversions, apothecary conversions, IV flow rates, dosage calculations, and business math problems. Prerequisite: At least a “C” in high school or college Algebra. Course fee required. Fall
PHY 14203 Pharmacy Technician II (3 Credit Hours). This course is a continuation of Pharmacy Technician I (PHT 10103). It is designed to provide to provide the student with the practical knowledge and skills to assist a registered pharmacist. Emphasis will be placed on the hospital pharmacy setting. Prerequisites: A grade of “C” or better in PHT 10103, PHT 11103, PHT 12103, and PHT 13203. Course fee required. Spring

PHY 14303 Pharmacy Math for RCP (3 Credit Hours). This course is designed to help health professionals to understand and apply basic mathematic applications to dosage calculations while working in various settings. An understanding of metric, household, and apothecary units and expression of time and temperature in healthcare settings is established. A discussion of interpretation of drug labels, reconstitution or medications, and most commonly used medical terminology will be incorporated. Dosage calculations for oral as well as parenteral medications using various techniques in adult and pediatric patients will be the main emphasis of this course. Respiratory specific calculations used in healthcare settings will be incorporated into this course. Prerequisite: Acceptance in Respiratory Therapy and successful completion of program sequence. Fall

PHY 18801-03 Selected Topics in Pharmacy Technician (1 to 3 Credit Hours). This course is designed to be a study of topics not included in regular PHT course offerings. The format of this course may be independent, directed study, or a scheduled class. Prerequisite: Permission of the instructor. Course fee may be required. On Demand

PHY - Physics

PHY 10404 (TM) Principles of Physics (4 Credit Hours). This is a survey of mechanics, energy, waves, sound, and atomic and nuclear physics. Prerequisite: MTH 11403 or equivalent skill level as indicated by the score on the mathematics placement exam. MTH 11403 may be taken concurrent with PHY 10404. Fall/Spring

PHY 13303 Applied Physics (3 Credit Hours). This course is a study of the mechanics of solids and liquids. It is designed for technology students. Two hours lecture, two hours lab. Course fee required. Prerequisite: TEC 11804 or permission of the instructor. Fall

PHY 17505 General Physics I with Algebra (5 Credit Hours). This course is an introduction to mechanics, thermodynamics, fluids, sound and waves utilizing algebra and trigonometry. Labs include work with computers to collect and analyze data. Laboratories emphasize the drawing of conclusions for collected evidence. Four hours lecture, two hours lab. Course fee required. Prerequisite: TEC 11804 or MTH 14505 or permission of the instructor. Fall

PHY 18505 General Physics II with Algebra (5 Credit Hours). This course is an introduction to electricity, magnetism, light, and modern physics utilizing algebra and trigonometry. Laboratories emphasize the drawing of conclusions for collected evidence. Four hours lecture, two hours lab. Course fee required. Prerequisite: PHY 17505 or permission of the instructor. Fall

PHY 20505 General Physics I with Calculus (5 Credit Hours). This course is a calculus-based introduction to mechanics, thermodynamics, wave characteristics, sound, and fluids. Labs include work with computers to collect and analyze data. Laboratories emphasize the drawing of conclusions for collected evidence. Four hours lecture, two hours lab. Course fee required. Prerequisite: MTH 15105 or permission of the instructor. Fall

PHY 21505 General Physics II with Calculus (5 Credit Hours). This course is a calculus-based introduction to electricity, and magnetism, light, and modern physics. Labs include work with computers to collect and analyze data. Laboratories emphasize the drawing of conclusions for collected evidence. Four hours lecture, two hours lab. Course fee required. Prerequisite: PHY 20505 or permission of the instructor. Spring 2012

PHY 28801-05 Selected Topics in Physics (1 to 5 Credit Hours). This course is a study of topics not included in other course offerings. The format may be independent or directed studies, a research project, a scheduled class, or a seminar. Prerequisites: PHY 21505, and permission of the instructor and School Chair. On Demand

PHY 37303 Thermodynamics (3 Credit Hours). Theory and application of the first and second laws, phase change, entropy, and efficiency are covered in this course. Prerequisite: PHY 20505 or permission of the instructor. On Demand

PHY 38303 Classical Optics (3 Credit Hours). The study of wave motion, super position, polarization, interference, and diffraction are topics of this course. Prerequisite: PHY 21505 or permission of the instructor. On Demand

PHY 46404 Modern Physics (4 Credit Hours). This course is a study of the special theory of relativity, nuclear structure and nuclear reactions, selected topics in molecular, statistical, and solid state physics. Prerequisite: PHY 21505 or permission of the instructor. On Demand

PHY 47303 Electronics for Scientists (3 Credit Hours). This course is a study of electrical circuits containing analog circuit components. Topics include: half-wave and full-wave power supplies, amplifiers, oscillators, and integrated circuits. Prerequisite: PHY 21505 or permission of the instructor. On Demand

PHY 48801-05 Selected Topics in Physics (1 to 5 Credit Hours). This course is a study of topics not included in other course offerings. The format may be independent or directed studies, a research project, a scheduled class, or a seminar. Prerequisites: PHY 21505, and permission of the instructor and School Chair. On Demand

POL - Political Science

POL 11103 (TM) American National Government (3 Credit Hours). An introduction to Constitutional foundations, the major national political institutions, policy processes, public opinion and political behavior, interest groups, and electoral politics. Fall Spring

POL 12103 American State Government (3 Credit Hours). A study of states in the federal relationship, a comparison of political culture in various states and regions, the major state political institutions, political parties, and interest groups. Fall Spring

POL 28803 Selected Topics in Political Science (3 Credit Hours). Topics will vary and may include such things as U.S. foreign policy, comparative politics, public opinion, presidential election-year politics, and political science methods. (Repeatable with different topics) On Demand
POL 29901-03 Directed Studies in Political Science (1 to 3 Credit Hours). Independent study and/or research at the Sophomore level under the supervision of an instructor in Political Science. May include directed research and readings and formal study of a topic of special interest to the student. Prerequisites: Sophomore standing and the completion of at least six (6) credit hours in the discipline, as well as sponsorship by an instructor and approval of the Dean of the College of Arts and Sciences. Repeatable to six (6) credit hours. On Demand

POL 31103 The Presidency (3 Credit Hours). A study of the chief executive with emphasis on constitutional status of the presidency in the American political system, development of the presidency through laws and through formal and informal amendments, and major roles and responsibilities. Fall

POL 31203 The American Constitutional System (3 Credit Hours). A study of the major constitutional principles of the American governmental system using landmark U.S. federal court cases. Spring

POL 34103 Legislative Behavior and Process (3 Credit Hours). A study of legislator behavior and the legislative process with major attention to the U.S. Congress and with minor attention to state legislatures and the British Parliament. Parties, interest groups, and leadership will be discussed. Spring

POL 35103 Comparative Government (3 Credit Hours). A study of structures, behaviors, and processes of contemporary political systems. Prerequisite: At least junior status or permission of the instructor. Fall

POL 45103 Comparative Government (3 Credit Hours). An analysis of various aspects of international relations, including the operating influences on international relations and an examination of theories of international relations. Prerequisite: At least junior status or permission of the instructor. Fall

PSY 21203 Psychology of Adjustment. (3 Credit Hours) An introduction to the skills of helping and making a difference in people’s lives. Reviews different types of counselors and their theoretical orientations. Examines important historical developments that have shaped the evolution of the counseling profession. Students will explore the “self as instrument” concept in developing their own philosophy of the therapeutic relationship. Prerequisite: PSY 1103 (“C” letter grade or higher). Fall

PSY 22203 Cognitive Psychology. (3 Credit Hours) This course will examine fundamental areas in cognitive psychology including, but not limited to, sensation and perception, attention, memory, and language. Prerequisites: PSY 1103

PSY 24103 Introduction to Physiological Psychology. (3 Credit Hours) A study of the physiological bases of sensation, motor functions, emotions, motivation, and complex behavior. Prerequisites: BIO 11404 (“C” letter grade or higher), PSY 1103 (“C” letter grade or higher). Fall

PSY 25203 Learning Theory. (3 Credit Hours) This study includes aspects of how people acquire information about the structure of our environment and how we use this information in effective living. The course will include an examination of classical conditioning, operant conditioning, concept identification, problem solving, and the biological systems which enhance or impair learning. Prerequisite: PSY 1103 (“C” letter grade or higher). Course fee required. Fall

PSY 29901-03 Directed Studies in Psychology. (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in Psychology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing and the completion of at least six credit hours in the discipline, as well as sponsorship by a full-time psychology faculty member, and approval of the Dean of the College of Liberal Arts And Sciences. On Demand

PPM - Power Plant Mechanical Maintenance

PPM 20202 Industrial Rigging (2 Credit Hours) This course is designed to provide the student with training in rigging using fiber line, wire rope and chains. The student will also perform reeving, rigging using slings, and specialized rigging, and will use miscellaneous rigging equipment, material handling power equipment, and be able to load and unload trucks. Spring

PPM 31002 Physical Properties. (3 Credit Hours) A study of the physical properties of materials commonly used in the Power Plant industry. Emphasis is placed on the mechanical, thermal, and electrical properties of materials. Fall

PPM 31102 Safety. (3 Credit Hours) An introduction to safety principles and practices as they apply to the Power Plant industry. Stress is placed on hazard control, accident prevention, and the development and implementation of a safety program. Fall

PPM 31202 Equipment. (3 Credit Hours) A study of the various types of equipment used in the Power Plant industry. Emphasis is placed on the selection, operation, and maintenance of equipment. Spring

PPM 31302 Chemistry. (3 Credit Hours) An introduction to the chemical principles and processes that are fundamental to the Power Plant industry. Emphasis is placed on the chemical reactions that occur in power plant systems and the principles of chemical engineering. Spring
PSY 31203 Psychology of Adjustment. (3 Credit Hours) A consideration of the mechanisms by which people adjust to themselves and their environments. Current and traditional approaches to understanding personal adjustment and maladjustment. Emphasizes personality dynamics and effective behavior. Prerequisite: PSY 11103 (“C” letter grade or higher). Fall

PSY 33103 Organizational Psychology. (3 Credit Hours) An exploration of the principles and methods of applied psychology in organizations which will prepare the student for participation in management, executive training, creativity, group decision making, organizational climate and effectiveness, job satisfaction, non-financial motivators, and management roles. Emphasis will be on laboratory exercises designed to develop skills through personal experience. Prerequisite: PSY 11103 (“C” letter grade or higher). On Demand

PSY 33203 Social Psychology. (3 Credit Hours) An integrative interactionist approach to the experience and behavior of the individual in relation to social stimulus situations. Prerequisite: PSY 11103 (“C” letter grade or higher). Fall

PSY 34103 Young Adolescence to Adulthood. (3 Credit Hours) Study of normal patterns of physical, cognitive, moral, social, and sexual development in adolescence and young adulthood, with particular attention given to Piaget’s theories of cognitive and moral development, Kohlberg’s theory of moral development, and Erikson’s theory of psychosocial development, deviations from the normal patterns of development in adolescence and emerging adulthood. Some topic areas covered may include eating disorders, suicide, teen violence, and bullying. Prerequisite: PSY 11103 (“C” letter grade or higher). On Demand

PSY 35103 Psychological Tests and Measurements. (3 Credit Hours) Survey of major tests of intelligence, aptitude, interest, and personality as presently used in clinics, schools, personnel offices, and research settings. Emphasis on evaluation and comparison of tests, rationale of test construction, and ethical considerations in testing. Prerequisite: PSY 11103 (“C” letter grade or higher). On Demand

PSY 36204 Research Methods II. (4 Credit Hours) An advanced study of the statistical, ethical, and practical aspects of experimental research design, implementation, and analysis. Must be taken concurrently with PSY 36204L. This course consists of three hours lecture, two hours lab. Prerequisites: (All with “C” letter grade or higher) ENG 11203, PSY 20103. Spring

PSY 37103 Personality. (3 Credit Hours) An examination of several prominent personality theories and their present applications. Prerequisite: PSY 11103 (“C” letter grade or higher). Fall

PSY 38801-03 Selected Topics in Psychology. (1 to 3 Credit Hours) A seminar course involving the study of some aspect of psychology that does not fall under one of the other course descriptions. On Demand

PSY 47103 Abnormal Psychology. (3 Credit Hours) A study of mental disorders, changing conceptions of normality, common forms of mental disorders and their psychological interpretation, and the principles of effective mental hygiene as it applies to the individual, home, school, and society. Spring

PSY 47603 History and Systems of Psychology. (3 Credit Hours) A historical review of the important systematic positions in psychology viewed in a broad social and intellectual context. Emphasis will be given to the roots of psychology in philosophy, as well as modern theories of psychology as a science. Prerequisites: PSY 11103 (“C” letter grade or higher), PSY 24103 (“C” letter grade or higher), PSY 47103 (“C” letter grade or higher) and Senior standing. Spring 2012/2014

PSY 47901-06 Community Practicum in Psychology. (1 to 6 Credit Hours) A field experience focusing on observation and participation in the activities of an agency or organization which provides psychological, mental health, educational, or research services in the community. Prerequisites: Accepted psychology majors only, Junior or Senior standing, sponsorship by a full-time member of the Psychology faculty, and approval by the Dean of the College of Arts and Sciences. On Demand

PSY 49802-06 Senior Thesis. (2 to 6 Credit Hours) Independent study and/or research under the supervision of a member of the Psychology faculty. May include either a review of a pertinent area of the professional literature or execution and written summary of a research project, such as those developed in PSY 36204. May be repeated once for a maximum of 6 credit hours. Prerequisites: PSY 36204 (“C” letter grade or higher), Senior standing, and permission of instructor. On Demand

PSY 49902-06 Directed Studies in Psychology. (2 to 6 Credit Hours) Independent study and/or research under the supervision of an instructor in psychology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Junior or Senior standing and the completion of at least twelve (12) credit hours in the discipline, as well as sponsorship by a full-time member of the psychology faculty, and approval of the Dean of the College of Arts and Sciences. On Demand

RAD - Radiological Technology

RAD 10101 Introduction to Radiologic Sciences (1 Credit Hour) This course will introduce the students to the field of radiology. The course is designed to provide an overview of the role and responsibilities of a radiographer. The course will also introduce medical terminology, radiographic orders, and diagnostic reports. The course will also provide the fundamental concepts of ethics and law issues. One hour lecture. Course fee required. Prerequisite: Met academic requirements of RAD program and official acceptance into the RAD program. Fall

RAD 10202 Radiation Physics (2 Credit Hours) This course is designed to introduce the principles of x-ray production, types of radiation, interactions, and applications in diagnostic imaging. Two hours lecture. Course fee required. Prerequisite: Met academic requirements of RAD program. Fall

RAD 10302 Sectional Anatomy (2 Credit Hours) This course introduces the human anatomy structures and locations as seen in CT, MRI, and Ultrasound. Course fee required. Prerequisite: Met academic requirements of RAD program and/or official acceptance into the Diagnostic Medical Sonography (DMS) program. Summer
RAD 11103 Radiographic Positioning and Imaging Procedures I (3 Credit Hours) This course will introduce the student to introductory anatomy, positioning, techniques, and analyzing standards used in the clinical practice. The course will focus on the following areas: select upper and lower skeletal system. Two hours lecture, three hours lab. Course fee required. Prerequisite: Met academic requirements of RAD program. Fall

RAD 11203 Radiographic Positioning and Imaging Procedures II (3 Credit Hours) This course will introduce the student to introductory anatomy, positioning, techniques, analyzing standards used in the clinical practice. The course will focus on the following areas: select upper and lower skeletal system, selected contrast studies, and advanced radiographic procedures. Two hours lecture, three hours lab. Course fee required. Prerequisite: Met academic requirements of RAD program. Spring

RAD 11303 Imaging and Processing I (3 Credit Hours) This course will provide the basic imaging quality standards for obtaining a radiograph. The course will also demonstrate the role of film and electronic accessories. Two hours lecture. Course fee required. Prerequisite: Met academic requirements of RAD program. Spring

RAD 11402 Standards for Patient Care (2 Credit Hours) This course is designed to provide the standards for patient care in the clinical practice. The course will address routine and emergency care standards. Also, the course will explain the role that the radiographer plays in patient education. Two hours lecture. Course fee required. Prerequisite: Met academic requirements of RAD program. Spring

RAD 11502 Clinical Education I (2 Credit Hours) This course will provide the students an opportunity to perform the skills that they have obtained in RAD 11103 and RAD 11203. The course will focus on the following areas: patient care, select upper and lower skeletal system, and selected contrast studies. Sixteen (16) clinical hours. Course fee required. Prerequisite: Met academic requirements of RAD program. Spring

RAD 11602 Computed Tomography (2 Credit Hours) This course will introduce the students to the basic principles of computed tomography standards used in the clinical practice. The course will focus on the following areas: computed tomography generations, components, operations, processes, and radiation protection. Two hours lecture. Course fee required. Prerequisite: Met academic requirements of RAD program. Spring

RAD 21205 Clinical Education II (5 Credit Hours) This course will provide the students an opportunity to perform the skills that they have obtained in RAD 11103 and RAD 11203. The course will focus on the following areas: patient care, select upper and lower skeletal system, and selected contrast studies. Forty (40) clinical hours. Course fee required. Prerequisite: Met academic requirements of RAD program. Summer

RAD 21302 Radiobiology and Radiation Protection (2 Credit Hours) This course is designed to explain the interaction of radiation with living systems. The course will also present the biological responses that occur due to different doses of radiation exposures. Two hours lecture. Course fee required. Prerequisite: Met academic requirements of RAD program. Fall

RAD 21402 Imaging and Processing II (2 Credit Hours) This course will provide the basic imaging quality standards for obtaining a radiograph. The course will also demonstrate the role of film and electronic accessories. Two hours lecture. Course fee required. Prerequisite: Met academic requirements of RAD program. Fall

RAD 21503 Clinical Education III (3 Credit Hours) This course will provide the students an opportunity to perform the skills that they have obtained in RAD 21302 and RAD 21403. The course will focus on the following areas: patient care, select upper and lower skeletal system, selected contrast studies, and advanced radiographic procedures. Twenty-four (24) clinical hours. Course fee required. Prerequisite: Met academic requirements of RAD program. Fall

RAD 21601 Radiologic Information Technology (1 Credit Hour) This course introduces the imaging equipment and its design used in clinical practice. This course also establishes the basic knowledge of types of computers and software also used in the clinical practice. One hours lecture. Prerequisite: Met academic requirements of RAD program. Spring

RAD 21702 Radiologic Pathology (2 Credit Hours) This course is designed to introduce students to pathological conditions and basic pharmacology concepts. This course will describe the systemic classifications of diseases in terms of etiology, types, common sites, complications, and prognosis. This course will also describe the radiographic appearances, procedures, and techniques including the diagnostic contrast agents and/or intravenous medications used in imaging diseases and trauma. Two hours lecture. Course fee required. Prerequisite: Met academic requirements of RAD program. Fall

RAD 21803 Radiographic Seminar (3 Credit Hours) This course will provide the students an opportunity to refine the knowledge that they have obtained throughout their studies in order to prepare the students to take the National Certification Exam in Radiography. This course will also prepare the students for job interviews upon graduation. Course fee required. Prerequisite: Met academic requirements of RAD program. Spring

RAD 21903 Clinical Education IV (3 Credit Hours) This course will provide the students an opportunity to perform the skills that they have obtained in RAD 21302 and RAD 21403. The course will focus on the following areas: patient care, select upper and lower skeletal system, selected contrast studies, and advanced radiographic procedures. Twenty-four (24) clinical hours. Course fee required. Prerequisite: Met academic requirements of RAD program. Spring

RAD 22801-04 Selected Topics in Radiologic Technology (1 to 4 Credit Hours) This course is designed to offer students an opportunity to explore topics in radiology that are not generally found in our Radiologic Technology classes. Course fee may be required. Prerequisite: Met academic requirements of RAD program. On Demand

RAD 29901-03 Directed Studies in Radiologic Technology (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in radiologic technology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing, the completion of at least one semester of RAD courses, and permission of the instructor and program director. Course fee may be required. Prerequisite: Met academic requirements of RAD program. On Demand
RCP - Respiratory Therapy

RCP 10103 Pharmacology (3 Credit Hours) This course provides information on the category, use, side effects, and usual dosage of drugs as they relate to the patient’s diagnosis. The course also provides a review of math, dosages, calculations and solutions, metric and apothecary systems, abbreviations, drug referencing, legal aspects, and techniques of preparation and drug administration within the legal and ethical scope of practice. Emphasis is given to the pulmonary, cardiac, vascular, and renal systems. Three hours of lecture each week. Prerequisites: Successful completion of program sequence. Course fee required. Summer

RCP 10204 Respiratory Fundamentals I (4 Credit Hours) This course will cover the history of respiratory care and our professional organization. Emphasis is on exploring the role of the respiratory therapist as a member of the healthcare team. Basic techniques of patient evaluation, the administration of medical gases, humidity and aerosol therapy are covered. Emphasis is placed on the safe handling of medical gases and safety in administration. The student will also attend a seminar on basic life support and become BCLS certified. Three hours lecture, three hours lab. Course fee required. Prerequisite: acceptance into the Respiratory Therapy program. Fall

RCP 10403 Cardiopulmonary Pathophysiology (3 Credit Hours) The most frequently encountered diseases and syndromes are presented in detail. Emphasis is placed on: etiology, signs and symptoms, pathology, clinical manifestations, secular, and treatment. Special emphasis is placed on the respiratory therapist’s role in the recognition and treatment of pulmonary disease. Three hours lecture. Prerequisite: successful completion of program sequence. Course fee required. Fall

RCP 10502 Respiratory Practicum I (2 Credit Hours) This practicum is designed to introduce the student to the clinical facility and clinical education. The student is introduced to the aspects of respiratory care as outlined in RCP 10204 Respiratory Fundamentals I. Emphasis is on the supervised practice of basic respiratory care procedures. Practice in gathering information from the patient record, patient evaluation, oxygen administration, and recordkeeping is provided. 10-12 clinical hours a week, which include pre/post seminar. Course fee required. Prerequisite: successful completion of program sequence. Spring

RCP 11204 Respiratory Fundamentals II (4 Credit Hours) This course is a continuation of RCP 10204 Respiratory Fundamentals I with the focus on medicine delivery devices, EKGs, pulmonary functions and patient education. The student is introduced to the principles and practices of stress testing, polysomnography, respiratory home care, and pulmonary rehabilitation. Throughout the course emphasis is placed on the relationship of the test results to various cardiopulmonary disease states. Three hours lecture, three hours lab. Course fee required. Prerequisite: successful completion of program sequence. Spring

RCP 11304 Respiratory Fundamentals III (4 Credit Hours) This course is a continuation of Respiratory Fundamentals I and II designed to provide the student with detailed knowledge of the principles and techniques of advanced therapeutic procedures used in respiratory care. Arterial blood gas sampling and analysis will be studied with special attention given to the design and function of blood gas analyzers and interpretation of arterial blood gases. Topics include: airway management, transtracheal oxygen therapy and aspiration, hemodynamic monitoring, bronchoscopy, thoracentesis and pleural chest tubes, advanced cardiac life support, patient transport, and respiratory management of the critical patient. Three hours lecture, three hours lab. Course fee required. Prerequisite: successful completion of program sequence. Summer

RCP 11502 Respiratory Practicum II (2 Credit Hours) This course is designed to provide the students an opportunity of performing supervised techniques of cardiopulmonary resuscitation, oxygen therapy, humidity and aerosol therapy, aerosol drug therapy, lung inflation, and techniques used in electrocardiography. This is a continuation of the aspects of respiratory care as outlined in RCP 10204 Respiratory Fundamentals I, RCP 11204 Respiratory Fundamentals II and RCP 22503 Cardiopulmonary A & P. Emphasis is on the supervised practice of basic respiratory care procedures. Sixteen (16) clinical hours a week. Course fee required. Prerequisite: successful completion of program sequence. Summer

RCP 20104 Mechanical Ventilation Management Technology (4 Credit Hours) The course covers the technology and management of continuous adult mechanical ventilation. Special emphasis is placed on the physiologic effects of various techniques and selection of optimal methods. Monitoring, quality control, and the ability to solve clinical problems relating to mechanical ventilation are emphasized. The course prepares the student to conduct the therapeutic procedures to achieve adequate spontaneous and artificial ventilation. Particular emphasis will be on ventilator complications, physiologic effects and the principles of ventilation management. Various classes of mechanical ventilators are discussed and compared, emphasizing the differences required in their uses. The technology of adult continuous mechanical ventilation is covered. The design, function, and operation of representative mechanical ventilators of the various classifications are examined in detail. Three hours lecture, three hours lab. Course fee required. Prerequisite: successful completion of program sequence. Spring

RCP 20203 Neonatal and Pediatric Respiratory Care (3 Credit Hours) This course introduces the student to special needs of the neonatal and pediatric patient. Fetal cardiopulmonary development and changes at birth are covered. Equipment, procedures, and methods used in the care and evaluation of neonatal and pediatric patients are also covered. Cardiopulmonary conditions and diseases particular to neonates are discussed. Two hours lecture, three hours lab. Course fee required. Prerequisite: successful completion of program sequence. Spring

RCP 20502 Respiratory Practicum III (2 Credit Hours) This course is designed to provide the students an opportunity to perform the skills they have obtained in RCP 22503 Cardiopulmonary A & P and RCP 11204 Respiratory Fundamentals II. Emphasis is given to the development of efficiency in the practice of fundamental and advanced respiratory care techniques. The student will receive supervised experience in caring for the critically ill cardiopulmonary patient. Sixteen (16) clinical hours a week. Course fee required. Prerequisite: successful completion of program sequence. Fall

RCP 21202 Seminar/Board Review (2 Credit Hours) This course introduces the student to test taking skills, mock examinations of the NBRC matrix, and self-evaluation studies. Study methods and applications are also covered. A study of realistic clinical problems and situations with emphasis on analyzing and evaluating these problems to formulate acceptable respiratory care plans. Practice will be provided in the necessary techniques to take the NBRC clinical simulations examination. Computer simulations are an integral part of the course. Two hours lecture. Prerequisite: successful completion of program sequence. Summer
RCP 21503 Respiratory Practicum IV (3 Credit Hours) This course is designed to provide the students an opportunity to continue to perform the skills they have obtained in previous respiratory courses and the skills introduced in RCP 20104 Mechanical Vent Technology and Management and RCP 11304 Respiratory Fundamentals III. Emphasis is given to the development of efficiency in the practice of fundamental and advanced airway management, ABG sampling and analysis, pulmonary function testing and sleep studies. The student will receive supervised experience in caring for the critically ill cardiopulmonary patient. Twenty-four (24) clinical hours a week. Course fee required. Prerequisite: successful completion of program sequence. Spring

RCP 21504 Respiratory Practicum V (4 Credit Hours) This course is designed to provide the students an opportunity to continue to perform the skills they have obtained in previous respiratory courses and special emphasis on the skills presented in RCP 20203 Neonatal Pediatric Respiratory Care. Emphasis given to the development of efficiency in the practice of fundamental and advanced respiratory care techniques. Students will have special rotations in such areas as pulmonary rehab, home care, sleep apnea labs, PFT labs, and neonatal/pediatric care. Students will engage in a 32-hour a week preceptor led clinical. Course fee required. Prerequisite: successful completion of program sequence. Summer

RCP 22503 Cardiopulmonary Anatomy and Physiology (3 Credit Hours) The course is detailed in the anatomy and physiology of the respiratory therapy system. Emphasis is placed on the interaction of systems that occurs during gas exchange in the renal system and acid base balance. The structure and function of the chest cage, mechanics of breathing, and control of respiration are also included. Three hours lecture. Course fee required. Prerequisite: successful completion of program sequence. Spring

RCP 28801-03 Selected Topics in Respiratory Therapy (1 to 3 Credit Hours) This course is a study of Respiratory Therapy topics not included in other course offerings. The format for this course may be special projects, readings, a scheduled class, or a seminar. Course fee required. On Demand

RCP 29901-03 Directed Studies in Respiratory Therapy (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in respiratory therapy. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing, the completion of at least one semester of RCP courses, and permission of the instructor and program director. Course fee may be required. On Demand

SOC - Sociology

SOC 11103 (TM) Introduction to Sociology (3 Credit Hours). An identification and explanation of the principles and an analysis of social life considering its multifaceted character. Topics include the nature of social science, culture and the socialization process, primary groups, social stratification, social structure, population, and social change. Fall Spring

SOC 24103 Minority Groups (3 Credit Hours). An objective analysis of the origin, characteristics, status, and adjustments of American racial, ethnic, religious, gender, and other minorities. The course includes a historical study in global context of American multi-cultural diversity through the study of race, ethnicity, and gender. Special emphasis is given to women as a minority group and Appalachia. Fall

SOC 25103 Social Problems (3 Credit Hours). Analysis of current social problems including implications of possible solutions. Prerequisite: SOC 11103. Fall

SOC 25403 Marriage and the Family (3 Credit Hours). A socio-historical analysis of the institutions of courtship, marriage, family, and divorce. Emphasis will be placed on changes occurring in the American family structure and contemporary problems, in particular, the role of women. Fall

SOC 27102 Death and Dying (2 Credit Hours). The sociological implications of death and dying in American society. Special attention focused on the social psychological, social structural, and cultural components of death from the distinctly American perspective. Course will apply research findings to real-life issues, including the dying patient, disposal of remains, and survivorship. Spring 2013

SOC 27203/37203 Introduction to Aging (3 Credit Hours). A survey course designed to orient the student in the interdisciplinary study of aging, normal aging processes, the aging individual in society, social problems of old age, and public policy and the older adult. It is intended to enable the student to gain a basic conception of gerontology through instilling a broad base of knowledge for application to other disciplines and occupations. Spring

SOC 27302/37302 Social Gerontology (2 Credit Hours). Designed to give the student a specific orientation to the social implications of aging in today's society. Emphasis will be on the social, psychological, economic, and physical aspects of aging. Institutional programming for older adults will be developed through comparison of societies. Deals with the aspects of aging and focuses on the relationship of the older person and the society. Prerequisite: SOC 27203. On Demand

SOC 28801-03 Selected Topics in Sociology (1 to 3 Credit Hours). Topics to be announced in the schedule. On Demand

SOC 29901-03 Directed Studies in Sociology (1 to 3 Credit Hours). Independent study and/or research under the supervision of an instructor in Sociology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing and the completion of at least six (6) credit hours in the discipline, as well as sponsorship by an instructor and approval of the Dean of the College of Arts and Sciences. On Demand

SOC 36103 Social Research (3 Credit Hours). Designed to give each student such knowledge of statistics, principles, and methods of scientific inquiry that will strengthen the individual’s professional practice and develop ability for research. Fall Spring

SOC 42103 Sociological Theory (3 Credit Hours). A survey of sociological theory from August Comte to the present. The development and utilization of theories will be emphasized. Prerequisite: Twelve (12) hours in Sociology or permission of the instructor. Spring

SOC 48801-03 Selected Topics in Sociology (1 to 3 Credit Hours). Topics to be announced in the schedule. On Demand
SOC 49901-03 Directed Studies in Sociology (1 to 3 Credit Hours). Independent study and/or research under the supervision of an instructor in Sociology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisite: Junior or Senior standing and the completion of at least twelve (12) credit hours in the discipline, as well as sponsorship by an instructor and approval of the Dean of the College of Arts and Sciences. On Demand

SPA - Spanish

SPA 11103 Elementary Spanish I (3 Credit Hours). Grammar, vocabulary, and basic conversation. Ear training in the Spanish sound system. Short reading passages and compositions in Spanish. *This class does not count toward major.* Fall

SPA 11203 Elementary Spanish II (3 Credit Hours). Continuation of SPA 11104. Grammar review; free conversation; class discussion of readings; expository composition in Spanish. Prerequisite: SPA 11104. *This class does not count toward major.* Spring

SPA 18801-03 Selected Topics in Elementary Spanish (1 to 3 Credit Hours). A seminar in some aspect or aspects of literature in Spanish. Spring 2013

SPA 21103 Intermediate Spanish I (3 Credit Hours). Grammar review of SPA 11104 and SPA 11204. Study of advanced grammar. Introduction to Spanish and Spanish-American culture and civilization. Reading of Spanish and Latin-American literature with some discussion in Spanish. Lectures and oral reports in Spanish. Prerequisite: SPA 11204. Fall

SPA 21203 Intermediate Spanish II (3 Credit Hours). Continuation of SPA 21103. Continued study of Spanish and Spanish-American culture and civilization. Reading of classical, traditional, and modern literature in Spanish with class discussion in Spanish. Lectures and oral reports in Spanish. Prerequisite: SPA 21103. Spring

SPA 23803 Spanish Linguistics (3 Credit Hours). A seminar in some aspect or aspects of advanced grammar and linguistics. Included: approaches to teaching Spanish. May be repeated for credit with different topics. Dual listed as SPA 33803. Prerequisite: SPA 21203. Fall 2011

SPA 24103 Advanced Conversation and Composition (3 Credit Hours). Conversation and discussion of various topics in conversational and formal grammar and selected readings. Emphasis on writing skills. Prerequisite: SPA 21203 or permission of instructor. Fall

SPA 28801-03 Selected Topics in Intermediate Spanish (1 to 3 Credit Hours). A seminar in some aspect or aspects of literature in Spanish. An author, a period, a genre, or the examination of a theme in representative works. May be repeated for credit with different topics. Dual listed as SPA 38801-03. Prerequisite: SPA 21203. Spring 2013

SPA 33803 Spanish Linguistics (3 Credit Hours). A seminar in some aspect or aspects of advanced grammar and linguistics. Included: approaches to teaching Spanish. May be repeated for credit with different topics. Dual listed as SPA 23803. Prerequisite: SPA 21203. Fall 2011

SPA 34303 Hispanic Geography and Culture (3 Credit Hours). Survey of the geography, civilization, history, and culture of Spanish-speaking countries of the world. Prerequisite: SPA 21203 or permission of instructor. Fall 2012

SPA 34503 Intro to Spanish Literature (3 Credit Hours). Selected Spanish and Spanish-American novels, poetry, and short stories. Historical developments and movements in Hispanic narrative style. Readings, lectures, and discussion. Emphasis on short stories and poetry. Prerequisite: SPA 34303. Fall 2012

SPA 34603 Latin American Literature (3 Credit Hours). Selected Latin American novels, poetry, and short stories from pre-Hispanic to contemporary literature. Developments and differences in themes and style in narrative forms. Readings, lectures, discussion, writing. Prerequisite: SPA 34304 or permission of instructor. Spring

SPA 34703 Modern Spanish Usage (3 Credit Hours). The structure of modern Spanish, both written and spoken. Students study grammar changes differences in vocabulary and slang through a variety of materials. Listening and oral comprehension skills emphasized. Dual listed as SPA 44703. Prerequisite: SPA 34304 or permission of instructor. Spring

SPA 34803 Spanish Linguistics (3 Credit Hours). Intense study of the phonetics of Spanish and the structure of the language. Readings, discussion. Writing and speaking skills reviewed and refined. Dual listed as SPA 44803. Prerequisite: SPA 21203 or permission of instructor. Fall 2011

SPA 38801-03 Selected Topics in Intermediate Spanish (1 to 3 Credit Hours). A seminar in some aspect or aspects of literature in Spanish. An author, a period, a genre, or the examination of a theme in representative works. May be repeated for credit with different topics. Dual listed as SPA 28801-03. Prerequisite: SPA 21203. Spring 2013

SPA 44703 Modern Spanish Usage (3 Credit Hours). The structure of modern Spanish, both written and spoken. Students study grammar changes differences in vocabulary and slang through a variety of materials. Listening and oral comprehension skills emphasized. Dual listed as SPA 34703. Prerequisite: SPA 34303 or permission of instructor. Spring

SSC - Social Science

SSC 11103 (TM) Introduction to Social Science. (3 Credit Hours). This course is an integrated social scientific analysis of human behavior including an examination of the scientific approach (attitudes, ethics, methods) and the central concepts of seven behavioral disciplines (Anthropology, Economics, Geography, History, Political Science, Psychology, and Sociology). Special emphasis is on the historical development of the social science, interdisciplinary problem solving, international relations, and citizenship in a democratic society and the interdependent world. Fall Spring

SWK - Social Work

SWK 21103 Introduction to Social Work (3 Credit Hours). A survey course to orient the student to the field of social work. Introduces an understanding of people as individuals and as members of groups and communities. Generic roles emphasizing change and responsibility are explored and identified. Major topics
include: history of social work, professional value assumptions, nature of the social work relationship, and fields of practice. Course Fee Required. Fall Spring

SWK 22103 Human Behavior and Social Environment I (or HBSE I) (3 Credit Hours). A course designed to provide the student with a comprehensive understanding of human behavior and the social environment; integration of knowledge gained in the biological, psychological, and socio-cultural realms; and the impact these forces have on the behavior of individuals and the social environment. Prerequisites: BIO 11404, PSY 11103, SOC 11103, SOC 24103, and HPE 10101. (All may be taken concurrently.) Fall

SWK 23103 Social Welfare Institutions (3 Credit Hours). An introduction to social service agencies as society’s response to social problems. Orientation will emphasize the practice approach in the context of contemporary social welfare policy. Residual and institutional welfare philosophies will be identified in the application of policy introduced for service evaluation. Prerequisites: SWK 22103, POL 11103, HIS 13203, and SOC 25103. (All may be taken concurrently.) Fall

SWK 24103 Fundamentals of Generalist Practice (3 Credit Hours). An integrating methods course that builds on the developing appreciation of human behavior in the social environment to identify the knowledge, values, and skills that serve as social work resources to intervene in people-environment transactions as systems. The basic concepts of generalist practice provide a foundation for exploring the generic aspects of social work methodology. Prerequisites: SWK 21103, SWK 22103, SWK 23103. Spring

SWK 24203 Interviewing Skills (3 Credit Hours). A skill-building course designed to develop the information collecting requirements of all social service positions. Emphasizing practical situations and role-playing, students will participate in identifying their personal style of engaging clients in directed conversation. Learning to exchange information establishes communication skills and forms the basis for case management. Prerequisites: SWK 21103, and COM 11103. Spring

SWK 25101 Group Supervision (1 Credit Hour). Taken concurrently with the first field experience, SWK 28902, this course allows practicum supervision to monitor classroom/field integration. A major focus is on developing self-evaluation skills. Course fee required. Prerequisite: SWK 24103 (May be taken concurrently.). Fall Spring Summer

SWK 28801-04 Selected Topics in Social Work (1 to 4 Credit Hours). A study of topics not included in current social work offerings or topics of more in-depth study than covered in current social work courses. The course may be repeated for credit upon change of the course topic. Prerequisites: Proposed by social work instructor, review by program director, review by School Chair, and approval by the Dean of the College of Arts and Sciences. On Demand

SWK 28901-02 Social Work Field Observation and Reporting (1 to 2 Credit Hours). The introductory field experience for the social work major provides the student with the opportunity for direct exposure to social service in an agency setting. Through affiliation with an agency as service provider, the student observes the nature of the client-worker relationship. The development of perceptual orientation and description skills is emphasized through varied levels of observation. The student will spend up to eight (8) hours per week for ten (10) weeks in an agency setting. Oral and written reports are required. Sites are approved by Field Placement Coordinator. Prerequisite: SWK 24103 (May be taken concurrently.). Fall Spring Summer

SWK 29901-03 Directed Studies in Social Work (1 to 3 Credit Hours). Independent study and/or research under the supervision of an instructor in Social Work, and approved by the Director. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing and the completion of at least six (6) hours in the discipline, as well as sponsorship by an instructor and approval of the Dean of the College of Arts and Sciences. On Demand

SWK 32103 Human Behavior and Social Environment II (or HBSE II) (3 Credit Hours). An analysis of the social organization of the community and its service networks. This course solidifies a system's perspective of the social environment with particular emphasis on defining the dynamics of community. Differentiating target systems in the social environment confirms an ecological perspective as a base to generalist problem solving. Prerequisite: SWK 22103. Spring

SWK 34103 Generalist Methods-Microsystems (3 Credit Hours). This course promotes an appreciation of the individual existing in a social environment. Working with individuals the student recognizes the importance of developing skill in problem identification, interviewing, strategy selection, and effective intervention. The socializing task of the developing family is recognized as a primary social environment. Microsystem size is differentiated in the generalist context. Prerequisite: SWK 24103. Fall

SWK 34202 Generalist Methods – Groupwork (2 Credit Hours). An introduction to the use of groupwork as an interventive strategy. Generalist methodology acknowledges a fluid transactional zone and appreciates strategies which maintain, promote, and remediate group functioning. Exploration of group theory and group skills are achieved through both didactic and experiential methods. Process observation reveals leadership and membership, decision making, conflict resolution, power, norms, attractiveness, and creativity. Prerequisite: SWK 24103. Spring

SWK 34303 Generalist Methods – Macrosystems (3 Credit Hours). An analysis of the social organization and community structures, i.e., bureaucracy, institutions, stratification, collective behavior, and social change. Generalist methodology differentiates organizational, policy and program development, and cause advocacy. Prerequisite: SWK 24103. Fall

SWK 35201 Advanced Group Supervision (1 Credit Hour). Taken concurrently with the middle level field experience, SWK 38901-03, this course stresses peer review, theory/practice integration, and self-evaluation. Prerequisites: SWK 24103 and SWK 28902. Fall Spring Summer

SWK 38801-04 Selected Topics in Social Work (1 to 4 Credit Hours). A study of topics not included in current social work offerings or topics of more in-depth study than covered in current social work courses. The course may be repeated for credit upon change of the course topic. Prerequisites: Proposed by social work instructor, review by program director, review by School Chair, and approval by the Dean of the College of Arts and Sciences. On Demand
SWK 38901-03 Social Work Practicum (1 to 3 Credit Hours). A middle level field experience focusing on the development of practice skills in the context of the social work relationship. The student is introduced to the responsibilities of professional intervention, generalist problem-solving methodology, and social policy as negotiated service. The student will spend up to ten (10) hours per week for twelve (12) weeks in an approved agency setting. Sites are approved by the Field Placement Coordinator. Prerequisites: SWK 24103 and SWK 28902. Fall Spring Summer

SWK 42103 Social Welfare Policy Analysis (3 Credit Hours). An advanced course in social welfare philosophy analyzing the relationship between social problems, social policy, and social service. The seminar orientation challenges the spirit of political inquiry, developing the student’s skill in policy, research and practice integration. Independent research and peer review cultivates the healthy tension of democratic debate. Prerequisite: SWK 24103. Spring

SWK 44103 Social Work Methods and Process (3 Credit Hours). An advanced methods course focusing on the principles of generalist practice as an integration of the continuum of traditional social work focus (individual, family, group, organization, and community). Performance evaluation is based on a beginning level of professional social work practice. Prerequisites: Senior status, SWK 24103, SWK 28902, and SWK 38903. Fall

SWK 46103 Practice Research (3 Credit Hours). This course focuses on the application of research methods to practice and agency evaluation. Activities will focus on evaluation of the effectiveness of individual practice, formative and summative program evaluation, and needs assessment. Prerequisites: SWK 24103, SWK 38903, and SOC 36103. Fall

SWK 48101 Senior Field Seminar (1 Credit Hour). An integrating seminar class to be taken concurrently with the senior field placement, SWK 48605/48705. Group supervision will focus on knowledge-skill-attitude-value integration in generalist practice. Prerequisites: SWK 25101 and SWK 35201. Fall Spring Summer

SWK 48605 Social Work Field Placement A (5 Credit Hours). This major senior level practicum is the first half of a two semester sequence requiring 200-clock hours (minimum 12 week) affiliation with an approved social service agency. The purpose is to develop and establish the student in beginning professional social work practice. Performance evaluation focuses on knowledge-value-skill integration. Sites are approved by the Field Placement Coordinator. Prerequisite: SWK 44103 (May be taken concurrently.). Fall Spring Summer

SWK 48705 Social Work Field Placement B (5 Credit Hours). A consecutive assignment in the same agency as established in SWK 48605 requiring 200-clock hours (minimum 12 week) affiliation and increased responsibility. Performance evaluation continues with supervision. Prerequisites: SWK 46103 and SWK 48605. Fall Spring Summer

SWK 49901-04 Directed Studies in Social Work (1 to 4 Credit Hours). Independent study and/or research under the supervision of an instructor in Social Work, and approved by the Director. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Junior or Senior standing and the completion of at least twelve (12) hours in the discipline, as well as sponsorship by an instructor and approval of the Dean of the College of Arts and Sciences. On Demand

TEC - Technology

TEC 10003 How the Internet Works. (3 Credit Hours). This course is designed to introduce students to the technologies that drive the Internet. Topics include: TCP/IP, Internet addresses and domains, Internet file types, routers, ISDN, Internet/television, network computers, DSL, Satellite and palmtop connections, email, spam, usenet newsgroups, IRC, Instant messaging, Internet phone calls, web pages, web browsers, HTML, hypertext, URLs, Imagemaps and interactive forms, web host servers, telnet, push technology, java, javascript, activeX, agents, CGI scripting, audio and video on the Internet, multicast IP, Mbone, virtual reality, animation, intranets, shopping on the Internet, firewalls, DOS attacks, cookies, passports, cryptography, digital certificates, and parental controls on the Internet. Fall

TEC 10403 Personal Computer Keyboarding. (3 Credit Hours). This course is designed for students who are not majoring in Office Technology. The objective of this course is to instruct students in proper keyboarding techniques, thus enabling the students to develop touch control of the keyboard. This course provides instruction on using the Internet and using e-mail. The computer software used with this course will provide instruction and practice on the alphabet, numbers, symbols, and 10-key number pad keys, as well as the basics of word processing. With the skills acquired in this course, the students will be able to type and format assigned papers and reports for college courses, plus learn valuable skills that will be useful in future employment no matter the students’ career choice. Three hours lecture. Course fee required. Fall (Spring-On Demand)

TEC 11704 Applied Technical Mathematics I. (4 Credit Hours). A study of percentages, ratios, powers, roots, units of measure, using English and metric units, scientific notation, engineering notation, numbering systems (binary and hexadecimal), exponentials and logarithms, manipulation of algebraic expressions and formulas used in technical problem solving, quadratic equations, solving word problems, systems of equations, exponential functions, logarithmic functions, trigonometric functions, vectors as related to technical problem solving, addition of vectors, subtraction of vectors, complex numbers, and usage of calculators. Three hours lecture, two hours lab. Prerequisite: Passage of MTH 10403 or equivalent skill level as indicated by the score on the placement exam. Fall

TEC 11804 Applied Technical Mathematics II. (4 Credit Hours). A study of right triangles, angular measure (degrees and radians), trigonometric functions, graphs of trigonometric functions, semi-log graphing, logarithmic graphs, bar graphs, pie charts, probability, combinations, permutations, sampling, frequency distributions, central tendency, normal distribution, z-scores, t-scores, and usage of calculators. Three hours lecture, two hours lab. Prerequisite: TEC 11704 Applied Technical Mathematics I. Spring

TEC 18801-03 Selected Topics in Technology. (1 to 3 Credit Hours) This course is designed to be a study of topics not included in regular technology course offerings. The format of this course may be independent, directed study or a scheduled class. Prerequisite: Permission of the instructor. Course fee may be required. On Demand.

TEC 23303 Office Management and Customer Relations (3 Credit Hours). This course will cover the study of principles of supervision, human relations, office organization and administration, forms of organization, personnel practices, and customer relations. Course fee required. Spring
TEC 49901-03 Directed Studies in Technology. (1 to 3 Credit Hours) Independent study and/or research under the supervision of an instructor in any of the technology areas offered in the School of Engineering Technologies. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special educational experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Junior or senior standing and permission of the instructor. Course fee may be required. On Demand.

THR - Theater

THR 10503 Introduction to Theatre. (3 Credit Hours). A basic exposure to the major facets of theatrical production applied through mini courses and laboratory experiences, including script analysis, dramatic criticism, acting, directing, and theatre history. Fall

THR 12302 Acting I. (2 Credit Hours). Students are introduced to principles of character interpretation in acting. Classroom projects involve presentations of monologues and dialogues from plays for the purpose of working out particular dramatic problems. Spring 2012, 2014

THR 25403 Theatre Arts. (3 Credit Hours). This is a course in design, construction, operational techniques, and other skills, which support theatrical production. There will be weekly mini-courses and progress and problem solving conferences, as well as laboratory work. This course may be repeated for elective credit. On Demand.

THR 27402 TV, Motion Picture, Video. (2 Credit Hours). This course is an in-depth study of motion picture production. The course covers the history of motion picture production and editing, communication theory through the media of film, digital video editing and production, dvd authoring, lighting, composition and shooting techniques. The course is taught through lecture and hands-on practice. Spring 2012

THR 28801-03 Selected Topics. (1 to 3 Credit Hours). This course is designed to offer students an opportunity to explore topics in theatre and performance that are not generally found in the annual Theatre schedule of classes. On Demand.

THR 32302 Acting II. (2 Credit Hours). Further development in acting skills acquired in Beginning Acting. Material is drawn from classic and contemporary dramatic literature. Prerequisites: THR 12302 or permission of the instructor. Spring 2012

THR 38801-3 Selected Topics. (1-3 Credit Hours). This course is designed to offer students an opportunity to explore topics in theatre and performance that are not generally found in the annual Theatre schedule of classes. On demand.
Graduate Policies and Procedures

Many undergraduate student policies and procedures also apply to graduate students. It is important for graduate students to familiarize themselves with these policies. Included among them are policies related to Tuition, Financial Aid, Registration/Deregistration, Academic Grievance/Appeals, Campus Communications, Accounting, Campus Police/Parking, Schedule Changes (add/drop), Incompletes, and Course Cancellations. The policies listed in this section apply to specific graduate programs. Please refer to your advisor or the appropriate graduate office for further information.

Admission to the Graduate Program

Students must certify that all information contained on their admission application is correct and complete to the best of their knowledge. Those withholding and/or giving false information on the application may be ineligible for admission or later subject to dismissal. A student will be admitted to the Pre-MBA Program after completion of the application process.

Application Process: (first submission)

- Application for Graduate Admission
- Personal Statement
- Three letters of recommendation
- Official transcripts from all previously attended universities
- Resume with cover letter
- Work experience (preferred)
- Submit Proof of Financial Support
- Personal interview with MBA admissions committee

A student may be conditionally accepted at this point and issued an I-20. The student must arrive on campus 2 weeks prior to the beginning of classes in order to take the GMAT (minimum score of 350) and IELTS exam.

Students with pre-requisite courses and no GMAT score will take the GMAT exam upon arrival in the United States. If score is above 350, he/she will not be required to take the pre-requisites courses (Accounting, Statistics, Management, Law, & Economics). If not, he/she will be enrolled in the pre-requisite courses and required to retake the GMAT upon their completion. A score of at least 350 is required for admission into the MBA Program.

Students without pre-requisite courses and no GMAT score will be required to take the pre-requisite course work (Accounting, Statistics, Management, Law, & Economics). Upon completion of the required courses, he/she will be required to take the GMAT exam. A score of at least 350 is required for admission into the MBA Program.

Language Requirement:

International students must pass either the TOEFL (minimum score 527 paper exam, 71 online exam) or IELTS exam (minimum score of 6.5) as a condition to acceptance into the program.

All potential MBA students must meet Admission Index.

Master of Education – Intervention Specialist in Mild/Moderate

Master of Education – Intervention Specialist in Early Childhood

1. A completed application for admission and application fee (available online at www.rio.edu, click on “apply now”, scroll down to Graduate Education: Master of Education. Fee is waived if application is completed online.)
2. An official transcript of credit from the university/college where a bachelor’s degree was earned (unless you are a graduate of the University of Rio Grande).

3. A copy of provisional license, professional license, or permanent certificate from the State of Ohio. Out of state certification/licensure must have reciprocity agreement with the State of Ohio.

4. Three (3) professional letters of recommendations

Admission to Candidacy is based on:
1. Having applied for and been officially admitted to the Graduate Program.

2. Having completed a minimum of eight (8) semester hours, which must include EDT-57901 Portfolio at the University of Rio Grande with a 3.5 minimum GPA.

3. Have met Portfolio Benchmark II.

Master of Education – Educational Leadership

1. A completed application for admission and application fee (available online at www.rio.edu, click on “apply now”, scroll down to Graduate Education: Master of Education. Fee is waived if application is completed online.

2. An official transcript of credit from the university/college where a bachelor’s degree was earned (unless you are a graduate of the University of Rio Grande).

3. A copy of provisional license, professional license, or permanent certificate from the State of Ohio. An out of state certification/licensure must have reciprocity agreement with the State of Ohio.

4. Three (3) professional letters of recommendation.

5. Minimum undergraduate education of 3.0 GPA.

6. An interview with three (3) members of the Graduate Advisory Council.

7. Complete the MAPP test.

Admission to Candidacy is based on:
1. Having applied for and been officially admitted to the Graduate Program.

2. Having completed a minimum of eight (8) semester hours, which must include EDT-50201 Portfolio at the University of Rio Grande with a 3.5 minimum GPA.

3. Have met Portfolio Benchmark II.

Transfer of Credits

MEd:

1. Eight (8) semester or twelve (12) quarter hours of related graduate work with a grade of ‘B’ or better from another institution may be credited toward the Master of Education Degree upon approval by a committee comprised of three faculty members.

2. While all graduate classes successfully completed at other accredited academic institutions may be considered for transfer, only those with a clear relevance and unmistakable parallel with current University of Rio Grande Graduate courses can be credited toward our degree program.

3. Workshop credits are non-transferable, and do not count toward graduate degree requirements.

4. To be accepted, all transfer credits must be earned from an accredited institution within the past seven years.

MBA:

Transfer students will be required to have maintained the equivalent of at least a 3.00 cumulative grade point average in all graduate coursework prior to applying to this program. All standard admission material must be submitted by any student seeking transfer. Graduate credit from other accredited institutions earned prior to an application being submitted, may be accepted as transfer credit (up to nine semester hours) provided the grade is at least a “B” and that there is equivalent content (70% commonality) in the description of the course in question, with the course required by University of Rio Grande’s program.

Coursework and Clinical/Practicum

The following are policies of the University of Rio Grande Master of Education in Classroom Teaching program that apply to all students in the program. Students should see their academic advisor or the Graduate Coordinator if there are any questions regarding these policies.

1. To maximize the impact of the graduate program on the student, the graduate student must progress sequentially through the required coursework in both the core and the concentration.

2. To receive consideration to transfer coursework, the student must provide the Head of Teacher Education an official transcript from the institution that granted the original credits and a syllabi/course description with the relevant course title and number of credits.

3. Twenty-four (24) of the thirty-two (32) semester hours must be University of Rio Grande courses. The last eight (8) hours of coursework must be taken at the University of Rio Grande.

4. The student must complete all of the requirements of the Master of Education degree core and concentration areas, as well as the final assessment activity (paper, project, presentation, etc.) within a seven year period. Any courses older than seven years will not apply toward graduation.

5. The student must fulfill all clock-hour requirements for clinical and practicum experiences.

Graduation Procedures

Commencement Ceremony is held only once per year at the end of Spring Semester; however, degrees are posted each semester after successful completion of coursework and Oral Exit Exam.

1. Upon registering for last coursework, obtain graduation packet from Graduate Office.
2. Apply for graduation and pay appropriate fees. Deadlines: July 15th for summer posting; November 15th for fall posting, and January 15th for spring posting.

3. Contact Advisor to schedule Oral Exit Exam.

**Graduate Student Responsibility**

1. The graduate student is responsible for declaring a concentration area within the first semester of attendance. The student must formalize this declaration when applying for admission to candidacy. Following official assignment of an academic advisor, based on this declaration, the graduate student is responsible for discussing degree requirements with that academic advisor. Together they are to develop a plan for proceeding through the program. Both the graduate student and the academic advisor will sign this plan, which will be sent to the Graduate Office for permanent file. The student should confer with his/her academic advisor on a regular basis to assure continuous progress. In some cases, a student will be assigned an additional faculty member to serve as the project advisor. The project advisor, academic advisor, and graduate student will collaborate to ascertain that all program requirements are met. During their coursework, if a student and advisor determine that a change in concentration is needed, the student will complete a Declaration of Change form in the Graduate Office.

2. The student must assume responsibility for knowing the requirements and policies of the Graduate Program at the University of Rio Grande. In no case will a requirement be waived or an exemption granted because a student pleads ignorance of the requirement or asserts that his/her advisor or other authority did not inform the student of the requirement. While the School of Graduate Studies and the student’s advisor will endeavor to aid in every way possible, the responsibility for meeting requirements stated in this Catalog rests with the student.

**Professional Demeanor Standard**

Graduate students are expected to maintain high professional and ethical standards, such as, but not limited to:

- Regard for individual worth and dignity.
- Support the principles of individualization (respect for uniqueness), acceptance (respect for individual worth and difference), self-determination (respect for individual choice), and empowerment.
- Integrity, accountability and general ethical conduct.
- “Good Moral Character” meaning the combination of personal traits of honesty, integrity, attention to duty, forthrightness, and self-restraint that enables a person to discharge the duties of the teaching profession fully and faithfully.

A graduate faculty member shall notify the appropriate School Chair in writing if a student violates this standard. The faculty member will include the specific perceived violation accompanied by supporting documentation.

The School Chair will inform the student in person of the alleged violation. The student will have the opportunity to explain the situation.

If the School Chair determines that the student potentially violated the standard, he/she will convene a three person ad hoc committee to review all the relevant documentation, to meet with the student, and to render one of the following decisions: no action taken, probation with specific conditions to be met for reinstatement, or immediate dismissal from the program.

The student may appeal the decision to the Graduate Appeals Committee. A copy of the decision of the Graduate Appeals Committee will be placed in the student’s file in the Graduate Record’s Office. The decision is the final step in the appeals process; therefore, no further appeals shall be permitted.

**Retention Standards for Graduate Students**

**MBA Students:** Graduate MBA students must maintain a cumulative grade point average of 3.0, continue to meet the professional demeanor standard, and complete their program. The Graduate Office submits a record of cumulative grade point average at the end of each semester to the Director of the MBA Program. The Director of the MBA program reviews and submits his/her findings to the Dean of Professional and Applied Studies. Any student whose performance falls below a “B” will be assessed on an individual basis to determine cause. Any student receiving a grade of “D” or “F” is required to repeat the course and obtain a satisfactory grade before continuing in the program. MBA Students must have a minimum 3.0 grade point average to graduate.

**MEd Students:** Graduate MEd students must maintain a grade point average of 3.25, continue to meet the professional demeanor standard, and complete their program within seven years. A grade of ‘D’ or ‘F’ is not acceptable. These classes will not count toward graduation and must be repeated. MEd students must have a minimum 3.25 grade point average to graduate.

**Academic Probation and Suspension**

Graduate students who have completed more than 8 semester hours and have fallen below the 3.25 (3.0 for MBA students) grade point average will be placed on “Academic Probation.” Students who earn a grade point average of less than 3.25 (3.0 for MBA students) for two consecutive semesters will be placed on “Academic Suspension” and will be unable to enroll in additional graduate courses. Students on “Academic Suspension” may apply for readmission after one full semester of suspension.

**Faculty Preferences**

Because of the complexities of enrollment, registration and the staffing of on-line and classroom courses, requests for particular faculty members or class sections cannot be accommodated.

**Class Attendance**

Students are expected to attend classes and are accountable for work missed as a result of absence from class for any reason. The attendance policy for each course is the prerogative of the instructor. Students should be sure they understand the Attendance policy for each course at the beginning of the term.
Academic Honesty

Classroom and on-line work is expected to reflect a student’s own efforts. Students should not provide works for other students or accept work completed by other students. Students must also be careful in utilizing information from others, especially in term papers and reports. Plagiarism involves the use of another person’s ideas or words without noting the source. The use of a term paper or report for more than one class should be cleared with the instructor.

With the first instance of dishonesty, a student may be dropped from a course with a failing grade upon recommendation for the instructor or subject to other sanctions. A second instance may result in being suspended from the University.

Commencement

The Commencement Ceremony is held only once per year at the end of Spring Semester, however, degrees are posted each semester. Upon registering for their last coursework, students should contact the appropriate Graduate Office for the deadline to apply for graduation. Students are reminded that it takes time to review Master’s Projects with the care they warrant. Therefore, deposit of approved Master’s Projects during the regular academic year (Fall Semester, Spring Semester) to the Project Advisor is required four weeks prior to the end of the semester in which the student graduates. Students intending to graduate during the summer must consult their project advisor for determination of deadlines for submission of the Master’s Project.

Program Scope and Sequence

The graduate student is required to work with the academic advisor in planning a graduate program. The courses should be taken in numerical order except where otherwise recommended by the academic advisor. No workshop course will be applied against graduation requirements.

Advising Procedures

Each student is assigned to an academic advisor that provides assistance in preparing semester class schedules appropriate to the student’s declared concentration. Prior to class registration each semester students will meet with their advisor for schedule approval. The advisor will approve their schedule and release the advising hold.

The Director of the Center for Small Business Entrepreneurship serves as the academic advisor that provides assistance in preparing semester class schedules.

Program Completion

Graduate students must meet several deadlines to graduate. All graduating students should make an appointment with their academic advisor before or during the first week of the last semester to ascertain deadlines and to ensure that all coursework is or will be completed by the end of the final term. Once this is completed, the student is responsible for contacting the Graduate Office for an audit request.

MEd Portfolio: A portfolio for MEd candidate is started in EDT 57901 Portfolio for Intervention Specialist and EDT 50201 for Educational Leadership. The faculty has developed a portfolio handbook to assist MEd candidates in gathering artifacts during their Core and Concentration courses. The portfolio is developed by the MEd candidates to reflect knowledge, skills, and dispositions centering on the School of Education’s Conceptual Framework. The portfolio is assessed by faculty and external evaluators at benchmarks identified in the MEd Education Portfolio Handbook. Although the MEd candidates gather artifacts during their entire program, they develop the portfolio during the appropriate portfolio course. The portfolio is given final assessment by faculty and is also used at the Oral Exit Exam.

MBA Capstone Course: The Master’s Capstone Course for the MBA Program is designed to provide the student with the opportunity to synthesize the knowledge and expertise developed during the graduate program through the resolution of a problem. Knowledge, skills, and dispositions developed in each course should be directed toward the completion of a project that demonstrates that the student has gained from the graduate learning experience. (ENT-63103)

Student and Advisor Responsibilities

The MEd graduate student is responsible for declaring a concentration area within the first semester of attendance. The student must formalize this declaration when applying for admission to candidacy. Following official assignment of an academic advisor or mentor, based on this declaration, the graduate student is responsible for discussing degree requirements with that academic advisor. Together they are to develop a plan for proceeding through the program. Both the graduate student and the academic advisor will sign this plan, which will be placed in the student’s advising file. The student should confer with his/her academic advisor on a regular basis to assure continuous progress. In some cases, a student will be assigned an additional faculty member to serve as the project advisor. The project advisor, academic advisor, and graduate student will collaborate to ascertain that all program requirements are met.

Second Master of Education Degree

MEd students who wish to earn a second Master’s Degree must meet the following criteria:

1. Student must meet and have completed all the requirements for a first degree.
2. A student may earn a second degree in a different area of knowledge. For example, if the first degree is in the Intervention Specialist Mild/Moderate Concentration, then the second degree can be obtained in the Early Childhood Concentration or Educational Leadership. The area of concentration MUST be specific to the concentration degree.
3. Students may use the same credits from their CORE courses toward both degrees.
4. In addition to the required hours of credit necessary to earn the first degree, students must complete the required additional hours of concentration credits, which will count toward the second degree.
5. For those who graduate with a Master of Education in Classroom Teaching from the University of Rio Grande and who subsequently return to pursue a second degree in the graduate program, the number of years between graduation with the first degree and returning to begin the new concentration for the second degree can be no more than seven (7) years.

To apply, students must:

1. Meet with their assigned academic advisor to develop a program plan,

2. provide their assigned academic advisor all relevant documentation regarding transfer credits,

3. develop a project plan in conjunction with their academic advisor,

4. schedule advising sessions for subsequent terms and register in advance for courses.

5. Contact the Graduate Office for graduation application and instructions.

6. Intervention Specialist and Educational Leadership students must contact the Graduate Office to schedule their Oral Exit Exam.

**Graduate Student Responsibility**

The student must assume responsibility for knowing the requirements and policies of the Graduate Program at the University of Rio Grande. In no case will a requirement be waived or an exemption granted because a student pleads ignorance of the requirement or asserts that his/her advisor or other authority did not inform the student of the requirement. While the School of Graduate Studies and the student’s advisor will endeavor to aid in every way possible, the responsibility for meeting requirements stated in this Catalog rests with the student.
Mission Statement

The Emerson E. Evans School of Business seeks to empower the potential entrepreneurs to enter the regional, as well as global market place, through technology and international partnerships.

Degrees Offered

Master of Business Administration – Entrepreneurship
Pre-MBA program (certificate)

Learning Outcomes

Students will:

- Develop their thought processes... The student’s ability to think clearly, reason logically, arrive at one’s own conclusions through one’s own observations, interpret data, analyze situations, discover principles, resolve problems, read rapidly with understanding, to research, stimulate his/her creative powers and to express one’s ideas orally and in writing.
- Develop their ethical and social responsibility values and leadership qualities conducive to success. This goal includes, but is not limited to, principles of:
  - Basic honesty
  - Reliability
  - Perseverance
  - Social awareness
  - Individual responsibility
  - Self-discipline
  - Inter-personal cooperation
  - Substantial work-ethic
- Develop skills necessary to become competent managers and leaders. Students will be able to:
  - Understand and be able to properly apply the correct leadership style(s) in order to motivate and develop those individuals over whom they have managerial responsibility
  - Recognize the determinants of group cultures(s)
  - Identify the means to establish productive relationships with peers and seniors over whom the manager has no formal authority
  - Develop a vision for the future; align the organization behind that vision
  - Motivate people to achieve the vision, design effective organizations and modify them to achieve superior performance
- Acquire the necessary basic tools of business.
  - Accounting
  - Management/leadership
  - Finance
  - International commerce
  - Entrepreneurial principles
- Make a significant contribution to the economic development of the region.

Facilities

The Bob Evans Farms Hall was built in 2001 and is the home of the Emerson E. Evans School of Business. A distinctive tower creates a central sky light in the center of the building which houses three computer labs, faculty offices, a student lounge area, large and small meeting rooms, as well as class rooms

Accreditation

The Emerson E. Evans School of Business is accredited through the International Assembly of Colleges in Business Education (IACBE).

Additional Assessment Requirements for MBA Students

All MBA students will be required to successfully complete the following prior to graduation.

MBA Degree – The student will be working on the following projects throughout their course of study. Assessment will be an ongoing process with the final evaluation in the Capstone Course.

- Student’s Course Journals.
- Student’s Community Business Project.
- Student’s Business Plan.

Degree Requirements

Master of Business Administration – Entrepreneurship (5000)

The purpose of the MBA in Entrepreneurship is to educate students to gain leadership qualities and skills, high character attributes, integrity, ethics and business social responsibility. The achievement of this purpose will prepare graduates of the School of Business to make a successful difference in their business careers by enhancing business opportunities and contributing to the economic development of their communities.

Major concentration must include:

- ENT 60103 Foundations of Entrepreneurship .................3
- ENT 61103 Small Business Finance & Venture Capital .........................................................3
- ENT 62103 Social Entrepreneurship ..............................3
- ENT 63103 Advanced Entrepreneurship (Capstone Course) ..................................................3

Total Major Concentration hours ........................................ 12

MBA Core required courses

- ECO 50103 Economic Analysis..................................3
- ACC 53103 Financial Accounting .............................3
- FIN 54103 Financial Management ............................3
- BM 51103 Leadership & Strategic Management ........3
BM 52103 Data Analysis for Decision Making…………3
IT 55103 E-Business Technology .................................3
MKT 56103 Managerial Marketing .................................3
BM 57103 International Business .................................3
Total Business Core hours .................................................. 24

Total required hours for degree ............................................ 36

Pre-MBA program (4999)

The following courses are required for entrance into the MBA program. These courses may be taken in the Pre-MBA program or transferred from another university:

MBA 58803-ACC Principles of Accounting .....................3
MBA 58803-MNGT Principles of Management ...............3
MBA 58803-ECO Principles of Microeconomics ...........3
MBA 58804-STAT Introduction to Probability and Statistics .................................................. 4
MBA 58803-LAW Introduction to Business Law ............3
Total General Education hours .................................................. 16

For International Students not scoring above the required minimum on the English Proficiency Test, a student will be allowed to enter the program upon successful completion of the following English as Second Language coursework: (This coursework will be tailored to the specific need of the individual student.)

MBA 58803-Conversestion Conversation and Listening .................................................. 3
MBA 58803-Listening Listening and Reporting .............3
MBA 58803-ReadingI Reading and Vocabulary I ...........3
MBA 58803-ReadingII Reading and Vocabulary II .......3
MBA 58803-WritingI Writing and Grammar I .............3
MBA 58803-WritingII Writing and Grammar II ..........3
Total General Education hours .................................................. 18
Mission Statement

The School of Education at URG/RGCC holds a shared vision for its program, candidates and community. The URG/RGCC Bunce School of Education provides a challenging environment in which teacher candidates develop into professional individuals and are sensitive to Appalachian values. Our institution offers access to a professional career through a unique community college/private university configuration. An example of Rio Grande’s unique nature is that through a particular program alignment, teacher candidates at URG/RGCC may opt for some combination of a two, plus two, plus two program which will take them almost seamlessly from a two-year Associate’s Degree to a four year Bachelor’s Degree and into a two year Master’s program. This allows the University of Rio Grande/ Rio Grande Community College to open “Windows to the Future” for our candidates at all degree and licensure levels.

Degrees Offered

Master of Education – Intervention Specialist Early Childhood
Master of Education – Intervention Specialist Mild/Moderate

Learning Outcomes

The core courses provide students with general knowledge and dispositions related to good classroom instruction and pupil growth. Several types of teaching models, various learning theories, and curriculum models are explored so that classroom performance can be enhanced. The student is presented with new ways to use technology and research while building dispositions that will develop new leadership skills. The core curriculum gives the student the foundation for more effective study in the concentration areas.

Accreditation

The University of Rio Grande is accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools. Since 1916, the University has been authorized by the Department of Education to prepare students for teacher certification. The teacher education program is approved by the National Council for Accreditation of Teacher Education (NCATE) and the Council for Exceptional Children (CEC).

Degree Requirements

Master of Education – Intervention Specialist Early Childhood (40510)

The Intervention Specialist Early Childhood graduate level license program at the University of Rio Grande is available only to those students who already hold a teaching license or certificate in Elementary Education, Early Childhood, Middle Childhood, Adolescent to Young Adult, Multi-Age, or Secondary Education. This program prepares teachers to work in inclusive settings with student’s age three to seven, who are serviced in a non-categorical setting, and who have been identified with delays in two or more of the developmental areas. There are prerequisites to the program which insure that, regardless of the current license or certification, the graduate student will have a basic knowledge of all developmental levels. Students who are seeking licensure for Intervention Specialist Early Childhood must take Internship and pass Praxis II. Some of the core courses are offered during the academic year as Internet courses. Other courses are offered during the summer.

Major concentration must include:

- EDT 57003 Nature & Needs of Early Students with Exceptional Needs+* ............................................ 3
- EDT 57103 Diagnostic & Ethical Practices for Intervention Specialist – Early Childhood+*.............. 3
- EDT 57203 Literacy Development in Early Childhood+* ............................................. 3
- EDT 57302 Parents, Community, & School Collaboration in Early Childhood+* .................... 2
- EDT 57403 Early Childhood Curriculum & Instruction Strategies+* ........................................... 3
- EDT 57501 Integrating Technology for Students with Early Childhood Exceptional Needs+*....... 1
- EDT 57603 Applying Research to Education the Early Childhood Exceptional Learner+*........ 3
- EDT 57702 Instructional Strategies Seminar I Early Childhood Special Education+*.................. 2
- EDT 57803 Internship in Early Childhood Special Education+ ................................................. 3

Total Major Concentration hours .............................................................................. 23

M.Ed. Core required courses

- EDT 57901 Portfolio+* ........................................................................................................... 1
- EDT 50403 Learning Theory+* .......................................................................................... 3
- EDT 50603 Curriculum+* ................................................................................................. 3
EDT 50303 Teaching Models*..............................3
EDT 50501 Teachers as Leaders*...........................1
EDT 55502 Educational Research & Evaluation
   Methods*.................................................2
Total Education Core hours...............................................13

Total required hours for degree...........................................36

+Required for licensure
*Required for Master’s Degree

Note: For Licensure a student must have twelve semester hours in reading methods to include three semester hours in phonics methods, and coursework in multicultural relations and also an exceptional learner course

Master of Education – Intervention Mild/Moderate (4055)

The Intervention Specialist Mild/Moderate graduate level license program at the University of Rio Grande is available only to those students who already hold a teaching license or certificate in Early Childhood, Elementary Education, Middle Childhood, Adolescent to Young Adult, Multi-Age, or Secondary Education. This program prepares teachers to work in inclusive settings with student’s age five through twenty-one, who are serviced in a non-categorical setting, and who have been identified with mild/moderate disability in the area of learning disabilities, cognitive delay, physical disability, and/or emotional disturbance. There are prerequisites to the program that insure that, regardless of the current license or certification, the graduate student will have a basic knowledge of all age levels. Students who are seeking licensure for Intervention Specialist Mild/Moderate must take Internship and pass Praxis II. Some of the core courses are offered during the academic year as Internet courses. Other courses are offered during the summer. For licensure, a student must have twelve semester hours in reading methods to include three semester hours in phonics methods, and coursework in multicultural relations and also an exceptional learner course. Licensure requirements are subject to change.

Major concentration must include:
   EDT 53003 Nature & Needs of Students with Mild/Moderate Disabilities+*........................................3
   EDT 53303 Diagnostic & Ethical Practices+*................3
   EDT 53203 Classroom & Behavior Management for Students with Mild/Moderate Educational Needs+...3
   EDT 54003 Parents, Community, & School Collaboration+*.................................................................3
   EDT 53403 Curriculum & Instruction Strategies for Students with Mild/Moderate Educational Needs+...3
   EDT 53501 Integrating Technology for Students with Mild/Moderate Educational Needs+........1
   EDT 53702 Career and Vocational Transitions for Students with Mild/Moderate Educational Needs+......2
   EDT 53902 Instructional Strategies Practicum+*........2
   EDT 53803 Internship in Mild/Moderate Educational Needs+.................................................................3
Total Major Concentration hours.............................................23

M.Ed. Core required courses
   EDT 57901 Portfolio+*...........................................1
   EDT 50403 Learning Theory+*...............................3
   EDT 50603 Curriculum*........................................3
   EDT 50303 Teaching Models*..................................3
   EDT 50501 Teachers as Leaders*............................1
   EDT 55502 Educational Research & Evaluation
      Methods*....................................................2
Total M.Ed. Core hours.....................................................13

Total required hours for degree..........................................36

+Required for licensure
*Required for Master’s Degree

Note: For Licensure a student must have twelve semester hours in reading methods to include three semester hours in phonics methods, and coursework in multicultural relations and also an exceptional learner course
Mission Statement

The School of Education at URG/RGCC holds a shared vision for its program, candidates and community. The URG/RGCC Bunce School of Education provides a challenging environment in which teacher candidates develop into professional individuals and are sensitive to Appalachian values. Our institution offers access to a professional career through a unique community college/private university configuration. An example of Rio Grande’s unique nature is that through a particular program alignment, teacher candidates at URG/RGCC may opt for some combination of a two, plus two, plus two program which will take them almost seamlessly from a two-year Associate’s Degree to a four year Bachelor’s Degree and into a two year Master’s program. This allows the University of Rio Grande/Rio Grande Community College to open “Windows to the Future” for our candidates at all degree and licensure levels.

Degrees Offered

Master of Education – Educational Leadership

Learning Outcomes

The core courses provide candidates with general knowledge and dispositions related to education leadership, good classroom instruction and pupil growth. Several types of teaching models, various learning theories, and curriculum models are explored so that classroom performance can be enhanced. The candidate is presented with new ways to use technology and research while building dispositions that will develop new leadership skills. The core curriculum gives the candidate the foundation for more effective study in the concentration areas.

Accreditation

The University of Rio Grande is accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools. Since 1916, the University has been authorized by the Department of Education to prepare students for teacher certification. The teacher education program is approved by the National Council for Accreditation of Teacher Education (NCATE) and Educational Leadership Constituent Council (ELCC).

Degree Requirements

Master of Education – Educational Leadership (40520)

The Educational Leadership graduate level license program at the University of Rio Grande is available only to those candidates who already hold a teaching license or certificate in Early Childhood, Elementary Education, Middle Childhood, and Adolescent to Young Adult, Multi-Age, or Secondary Education. This program prepares teachers to work in a leadership role in an educational setting. There are prerequisites to the program that insure that, regardless of the current license or certification, the candidate will have a basic knowledge of all age levels. Candidates who are seeking licensure for “Principalship” must take Internship and pass Praxis II. Some of the core courses are offered during the academic year as Internet courses. Other courses are offered during the summer. Students must successfully complete an examination prescribed by the state board of education, complete two years of successful teaching, and hold a 5-year professional teacher license at the age levels for which the principal license is sought. Licensure requirements are subject to change.

Major concentration must include:

- EDT 59201 Grant Writing*.................................1
- EDT 59101 Diversity in Administrative Practices+*......1
- EDT 59203 Education Law+*.................................3
- EDT 59003 Parents, Community, School Collaboration+*..................................................3
- EDT 59303 Data-based Decision Making+*.................2
- EDT 59402 School Finance and Economics+*............2
- EDT 59501 Technology in Leadership and Learning+*....1
- EDT 59602 Historical Change and Issues in Administration+*........................................1
- EDT 59703 Supervision and Evaluation+*.................3
- EDT 59902 Management and Operations+*..............2
- EDT 59802 Internship 1+*..................................2

Total Major Concentration hours........................................... 25

M.Ed. Core required courses

- EDT 50201 Portfolio+.................................1
- EDT 50403 Learning Theory+*............................3
- EDT 50603 Curriculum+*.................................3
- EDT 50303 Teaching Models+*............................3
- EDT 55502 Educational Research & Evaluation Methods+*...................................................2

Total Education Core hours................................................12

Total required hours for degree...........................................37

*Required for licensure
+Required for Master’s Degree
+Required for Licensure - Student needs to successfully complete an examination prescribed by the state board of education and complete two years of successful teaching under a provisional or professional teacher license at the age levels for which the principal license is sought.

*EDT 59902 is based on one area of study outside the internship courses. Candidates must address the differences based on age and grade level by choosing either:

- EDT 59902 Management and Operations for Early Grades
- EDT 60102 Management and Operations for Middle Grades
- EDT 60202 Management and Operations for Secondary Schools

For Ohio Principalship: Choose ONE according to teaching licensure

- EDT 60002 – Internship for Grades PK-6
- EDT 61002 – Internship for Grades 4-9
- EDT 62002 – Internship for Grades 5-12
- EDT 63002 – Internship II for Career Technical areas Grades 5-12
### Course Numbers

Numbers 50000 and 60000 indicate Graduate Level courses.

The last two numbers indicate the number of credit hours the course carries, ranging from 1 through 10. As an example, course number 50403 carries three semester hours.

### ACC – Accounting

**ACC 11403 (Pre-MBA listing MBA58803-ACC)** **Principles of Accounting I:** An introduction to the accounting system, from the transaction through the preparation of the balance sheet and income statement. This course is an introduction to basic financial terminology and includes a study of current assets, long-term assets, liabilities, and owner’s equity for both partnerships and corporations. Lab fee required. Fall (3 semester hours)

**ACC 53103 Financial Accounting:** This course is an introduction to the accounting system, from the transaction through the preparation of the financial statements. Accounting and related business concepts will be studied. An emphasis will be placed on using accounting information for the entrepreneur. (3 semester hours)

### BM – Business Management

**BM 20403 (Pre-MBA listing MBA58803-MNGT)** **Principles of Management:** This course is designed to prepare students for a dynamic profession in which managers plan, analyze, make decisions, evaluate results, solve problems, supervise, lead, train, and learn. Lab fee required Fall Spring (3 semester hours)

**BM 27403 (Pre-MBA listing MBA58803-LAW)** **Introduction to Business Law:** A survey course presenting a broad view of the vast array of legal issues affecting daily life in the U.S. business environment. Areas of law covered will include: the court system, common law, statutory law, Constitutional law, torts, crimes, property ownership and control, consumer transactions, insurance and risk management, contract principles, and employment law. Furthermore, the course analyzes in detail how the law applies to contracts and sales and situations with special attention to the Uniform Commercial Code and its application. Also analyzed are collateral sales matters such as commercial paper and secured transactions. The second portion of this course includes an analysis of various business organizations such as corporations, partnerships, and independent contractors, the various aspects of management and liability, and special legal issues relating to these topics. Lab fee required Fall Spring (3 semester hours) (3 semester hours)

**BM 51103 Leadership & Strategic Management:** This course is designed to prepare students for a dynamic profession in which managers plan, analyze, make decisions, evaluate results, solve problems, supervise, lead, train, and learn. Therefore, managers require a number of skills and abilities to perform a multiplicity of tasks and functions. Management offers a challenging field with unlimited opportunities in a variety of areas including profit and non-profit organizations as well as government agencies. (3 semester hours)

**BM 52103 Data Analysis & Decision Making:** The ever-increasing capacity of computers to analyze data and the explosion of the amount of data available has resulted in an increased role for data analysis as an aid to business decision making. This course exposes you to the most important ideas and methods relevant for data analysis in a business context. Emphasizing practical applications to real problems, the course covers sampling, descriptive statistics, probability distributions, and regression analysis. (3 semester hours)

**BM 57103 International Business:** This course is an introduction to international business and the study of global markets. Current business related issues include topics in the international market via current issues and real multi-national and global company cases. Focus on international markets and their central relationship to international business entrepreneurship. Prerequisite: BM-51103

### ECO – Economics

**ECO 11403 (Pre-MBA listing MBA58803-ECO)** **Introduction to Microeconomics:** Nature of economic problems, theory of consumer behavior, theory of firm markets, and resource allocation. Lab fee required Fall Spring (3 semester hours)

**ECO 50103 Economic Analysis:** This course examines the underlying economics of successful business strategy, including the dynamics of entering an industry, the strategic imperatives of competitive markets, the sources of competitive advantage, managing competitive interaction (cooperation and preemption), bargaining situations, the impact of information distribution and the financial implications of strategic economics. (3 Semester Hours)

### EDT – Education in Classroom Teaching

**EDT 50201 Portfolio:** This course is designed to introduce the concept of portfolios. The graduate portfolio must document learning related to every class required for graduation. Artifacts collected will be placed into sections which are based on the University of Rio Grande Mission, the School of Education Conceptual Framework, the Educational Leadership Constituent Council, and the Ohio Principal Standards. The portfolio documents the personal, pedagogical, and philosophical journey that the candidate takes through the Graduate Program. It documents academic, personal, and professional growth. The portfolio is used by the graduate candidate during an oral examination prior to graduation. (1 semester hour) Portfolio is a prerequisite to all coursework.

**EDT 50303 Teaching Models:** This course focuses on several instructional models and how these models may be applied in the school system. The candidate will compare and contrast constructivism, cooperative learning, direct instruction, inquiry-based learning, and technology in schooling/learning. (3 semester hours)

**EDT 50403 Learning Theory:** This course is designed to review and contrast various learning theories in light of current brain research, societal/environmental influences and school practices. This course focuses on historical foundations of the study of learning and the relationship of learning theories to student learning, classroom settings and instructional modifications. (3 semester hours)
EDT 50501 Teachers as Leaders: The focus of this course is on the empowerment of teachers as agents of change in curriculum and instruction. (1 semester hour)

EDT 50603 Curriculum: This course is focused on skills as related to the development and organization of curriculum materials and implementation of the learning program with students. The course will review curriculum and design in respect to the pupils, discipline and societal needs. Ohio curriculum models in various areas will be explored in relation to the development of motor, cognitive, academic, social, language, affective, career and functional skills for individuals with and without exceptionalities. (3 semester hours)

EDT 53003 Nature & Needs of Students with Mild/Moderate Disabilities: This course is an exploration of etiology and development characteristics of students with mild/moderate disabilities, including such anomalies as social/emotional imperceptiveness, dyslexia, communicable diseases, and attention deficit disorder. Issues in identification, placement, and procedures current and embedded in history will be addressed. Discussions and demonstrations will be used to teach study skills, self-esteem, task analysis and techniques, strategies, materials, and equipment needed by the Intervention Specialist to instruct and adapt instruction for children and young adults with disabilities. (3 semester hours)

EDT 53203 Classroom & Behavior Management for Students with Mild/Moderate Educational Needs: This course introduces the students to the principles of classroom management. Attention is drawn to the physical learning environment and laying out the school year, as well as viewing the teacher as planner, educator, and manager for the classroom. Focus is drawn on how the teacher manages the work of paraprofessionals in the classroom. Stress is placed on the psychosocial environment of the classroom, managing student motivation, adapting instruction, managing students at work, and managing assessment, record keeping, and reporting. The students will be lead in discussion of prevention of behavior problems by developing skills in instructional planning – this activity is based on child performance data. The students are required to develop, write, and utilize instructional objectives that are related to classroom problems. Observation techniques for collecting data on student performance and identifying specific disturbing behaviors are taught. This course provides teachers with strategies to effectively manage a variety of education environments with behavior intervention skills and applied behavior analysis techniques. A ten (10) hour field experience is required. (3 semester hours)

EDT 53103 Diagnostic & Ethical Practices: This course delineates federal, state, and local laws, procedures, policies, and standards related to the assessment, eligibility, identification process, Individualized Education Programs, and placement of students into special education programs. Legal history, provisions, rights, and current research and issues concerning parents, teachers, and other school and community professionals in relation to students with disabilities will be emphasized. Ethical issues related to assessment, placement, medication, orientation, and gender biases will be investigated. The role of the professional organizations (CEC) with regard to the Code of Ethics and other standards and policies of the profession will be explored. Also stressed will be the importance of the teacher in serving as a role model for students with exceptional needs while maintaining the promotion of a high level of competency and integrity in professional practices. (3 semester hours)

EDT 53403 Curriculum & Instructional Strategies for Students with Mild/Moderate Educational Needs: In this course, students will learn to select and develop age appropriate formal and informal assessment strategies and instruments needed to collect student information. Students will learn to use the collected data to develop curricula and to write content lessons that reflect a strong knowledge base of research based appropriate strategies that may use related services in instruction and techniques that may be used in various delivery models. Students will also examine adaptations and interventions that may be used to assist students with problem solve and use other cognitive strategies to reach maximum potential in the least restrictive environment for students identified with mild/moderate disabilities from early childhood through young adults to age 21. Students will be required to participate in a twenty (20) clock hour field/clinical experience. During this experience, students will select formal and informal instruments and materials to assess strengths and weaknesses. Data will be used to select techniques and strategies to teach students in whole class or individual settings. Lessons will reflect a strong knowledge base in content teaching techniques, strategies, and modifications. (3 semester hours)

EDT 53501 Integrated Technology with Mild/Moderate Educational Needs: This course is designed to prepare the Intervention Specialist for meeting the technological needs of the individual with mild/moderate educational needs to work in his/her school. The course also focuses on adaptation and modification of both IBM and Macintosh platforms to accommodate individuals who need graphic, sound, and environmental interface support in order to access technology. Additional course content covers the use of adaptive devices. Work with the regional SERRC Center and OCRILISH center will provide hands-on experience with a wide variety of software, switches, and adaptive devices. This course develops the knowledge and skills for an awareness of the impact of the microcomputer on educational methods and applications in the classroom, evaluation of software, and integration of the computer and associated technologies into the content areas. The above is achieved by introducing the teacher to applications of the microcomputer in the classroom and by establishing the basic goals and objectives of a K-12 computer education program that is integrated with the total curriculum. (1 semester hour)

EDT 53702 Career and Vocational Transitions for Students with Mild/Moderate Educational Needs: This course will focus on issues and practices designed to accommodate developmental patterns of secondary level students with mild/moderate disabilities. Focus will be placed on school to work and school to community transitions. Discussions of how to infuse the concepts related to work into the curriculum from preschool to young adults to age 21 will be covered. Methods and techniques used in developing occupational and vocational interest are presented. Topics explored in this course include school related support for work as seen through clubs, such as project support, employment opportunities, living opportunities, community agencies related to work, and independent living. A ten (10) hour field/clinical experience will be required in a middle school to young adult setting. Students will conduct a case study of a student, which will be used to write a transition plan designed to ensure student success in the school to work process. (2 semester hour)

EDT 53803 Internship in Mild/Moderate Educational Needs: This field/clinical experience is the capstone activity for the Intervention Specialist Mild/Moderate master’s program in the Intervention Specialist concentration courses. Student teachers will be monitored and evaluated by the university instructor and the master teacher of the course. Students will keep a log/diary and will plan and implement lessons that reflect a strong knowledge
EDT 53902 Instructional Strategies Practicum: This course is aligned with the final portfolio benchmark. Candidates in this course will complete at least 150 hours field experience in a classroom serving Mild to Moderate ELN. Through electronic means, candidates will provide in-depth peer evaluation of self-developed units and lessons for all persons enrolled in this course. Emphasis is placed upon developing and implementing lessons and units to meet individual student needs in conjunction with existing IEPs. Fall, Spring. (2 semester hours)

EDT 54003 Parents, Community, & School Collaboration: This course is designed to help students gain the collaborative and consultation knowledge and skills necessary to work and communicate in a team approach. Students will discuss written and oral expression with parents in the school and community settings to facilitate the development, education, and socialization of students with mild/moderate disabilities from early childhood through young adults to age 21. Students will evaluate the impact of disabilities upon the life of the child and family members. Family legal rights, such as due process, structure of the family, history of the family, and the impact of culture, environmental milieu, and linguistic diversity upon the child and family will be stressed. Students will learn family coping strategies and identify sources of services, networking, and organizations that assist persons with disabilities, such as CEC and C.H.A.D.D. Students will be required to construct a case study of a family with an exceptional child. Students must conduct a parents’ interview and interpret a family profile, prepared by parents, to use when making written suggestions on how the school may assist the family in helping the student used in the case study to reach maximum potential. (3 semester hours)

EDT 55002 Educational Research and Evaluation Methods: This course will develop knowledge about and skills in using quantitative and qualitative methods in educational research. It will further prepare Master’s Degree candidates for future research endeavors. This course recognizes that different research questions require different data gathering techniques. A balanced approach to research methods will be used with equal time devoted to quantitative and qualitative research. Students will also analyze research methodology within both qualitative and quantitative research. Research material will be accessed via the internet, Ohio Link, video based and hard copy, library based resources. To be taken near the end of the program with Practicum. (2 semester hours)

EDT 57003 Nature & Needs of Early Childhood Students with Exceptional Needs: This course offers the candidate an opportunity to know about and understand early childhood students with exceptional needs. An exploration of etiology and developmental characteristics of young children with exceptional needs frames the study. All categories of exceptionality will be surveyed including anomalies such as social emotional imperceptiveness, communications delays, communicable diseases and attention deficit disorder. Candidates will study children with developmental delays or disabilities, children whose families are culturally and linguistically diverse, children from diverse socioeconomic groups, and other children with individual learning styles, strengths, and needs. Emphasis will focus on the ability to process key information. Candidates will gain a foundation upon which they can build the skills to understand, analyze, and reflect upon best practices and use/apply sound professional strategies to assist young children. Emphasis shall be placed on the ability to instruct and adapt instruction for children with special needs. (3 semester hours)

EDT 57103 Diagnostic & Ethical Practices for Intervention Specialist Early Childhood: This course is designed to provide the candidate an in-depth look at the federal and state laws and court cases that have influenced and formed the foundations of special education practice. The prime focus of attention will be on the current federal legislation affecting special education practice along with the most recent court cases at the State, District and Federal level. This course is also designed to familiarize the candidate with testing procedures and ethical practices to follow when assessing students with ELN. The assessment data will be interpreted and used to develop curricula, assist with programming decisions, provide program evaluation and provide suggestions for instructional practices. Students will evaluate ethical guidelines in teaching and assessment practices and review pertinent legislation that provided the framework for these policies and practices. (3 semester hours)

EDT 57203 Literacy Development in Early Childhood: In this course candidates explore the relationships and connections among language development, culture and literacy. Assignments will include investigating theories and using new understandings to develop appropriate literacy practices to be utilized in early childhood special education programs. The importance of language development will be emphasized in the early childhood program. (3 semester hours)

EDT 57302 Parents, Community, & School Collaboration in Early Childhood: This course is designed to help students gain the knowledge and skills necessary to work and communicate in written and oral expression with parents in the school and community settings to facilitate the education and socialization of students with mild/moderate disabilities in early childhood ages 3 to grade three. Students will discuss the impact of disabilities upon the life of the child and family members. Family legal rights, such as due process, structure of the family, history of the family, and the impact of culture, environmental milieu and linguistic diversity upon the child and family will be stressed. Students will learn family coping strategies and identify sources of services, networking, and organizations that assist persons with disabilities. Students will be required to construct a case study of a family with an exceptional student mild/moderate ranging from age 3 to grade three. Students will conduct a parent interview and interpret a family profile, prepared by parents, to use when making written suggestions on how the school may assist the family in helping the student used in the case study to reach maximum potential. (3 semester hours)

EDT 57403 Early Childhood Curriculum & Instructional Strategies: The focus of this course is the relationship between curriculum and instructional strategies from a developmental perspective in meeting needs of Early Childhood students with ELN. Specific curriculum and instructional strategies will be discussed and evaluated within the confines of the course. Adaptations and modifications of established curriculum to meet individual and IFSP needs and goals will also be addressed. Candidates in this course will be required to implement planned curriculum and instructional strategy practices in a field based early childhood ELN setting. (3 semester hours)
EDT 57501 Integrated Technology for students with Early Childhood Exceptional Needs: This course is designed to prepare the Intervention Specialist for meeting the technological needs of the individual with early childhood educational needs to work in his/her school. The course also focuses on adaptation and modification of both IBM and Macintosh platforms to accommodate individuals who need graphic, sound, and environmental interface support in order to access technology. Additional course content covers the use of adaptive devices. Work with the regional SERRC Center and OCRLISH center will provide hands-on experience with a wide variety of software, switches, and adaptive devices. This course develops the knowledge and skills for an awareness of the impact of the microcomputer on educational methods and applications in the classroom, evaluation of software, and integration of the computer and associated technologies into the content areas. The above is achieved by introducing the teacher to applications of the microcomputer in the classroom and by establishing the basic goals and objectives of a Pre-K computer education program that is integrated with the total curriculum. (1 semester hour)

EDT 57603 Applying Research to Educate the Early Childhood Exceptional Learner: This course will develop knowledge about and skills in using educational research in making instructional and programming decisions in the early childhood classroom for ELN students. It will also prepare Master’s Degree candidates for future research endeavors. This course recognizes that different research findings require analysis and synthesis prior to implementation in the classroom. Students will use a balanced approach to research implementation into instructional practice as students look at variables and outcomes within research findings prior to implementing techniques and practices in their classroom to serve early childhood ELN students. Research material will be accessed via the internet, Ohio Link and hard copy, library based resources. (3 semester hours)

EDT 57702 Instructional Strategies Practicum Seminar in Early Childhood Special Education: This course is aligned with the final portfolio benchmark. Candidates in this course will complete 150 hours of field experience in a classroom serving Early Childhood ELN. Through electronic means, candidates will provide in depth peer evaluation of self-developed units and lessons for all persons enrolled in this course. Emphasis is placed upon developing and implementing lessons and units to meet individual student needs in conjunction with existing IEPs. Fall, Spring. (2 semester hours)

EDT 57803 Internship in Early Childhood Special Education: This course is the final course before gaining licensure as an Intervention Specialist-Early Childhood. All other coursework must be completed prior to this course. Candidates will be evaluated by University of Rio Grande Faculty during this course in their field placement. Emphasis is placed on refining instruction and professional growth leading to lifelong learning in this course. Fall, Spring. (3 semester hours)

EDT 57901 Portfolio: Candidates are introduced to the concept portfolios. The portfolio must document learning related to every class required for graduation. Candidates are expected to plot a trajectory for them to generate evidence of the process of learning. Candidates will be taught how to set up a portfolio, reflect on professional practice, etc. Reflections should document the personal, pedagogical, and philosophical journey students take through the program. The graduate student’s advisor will assist the student in the development of the portfolio and will be one of a committee of three to evaluate final presentations of the portfolio by the student upon completion of all course work. (1 semester hour)

EDT 59003 Parent, Community, and School Collaboration for Educational Leadership: This course is designed to help the candidate gain the knowledge and skills necessary to establish relationships with various constituencies such as parents in the school, community members, teachers, personnel, district administrators, board members and other related entities that facilitate the development, education, and socialization of students. (3 semester hours)

EDT 59101 Diversity in Administrative Practice: This course is designed to provide students with an administrative field experience in culturally diverse setting. The field experience must be approved by the Field Placement Coordinator. The candidate must be supervised by an administrator at a school setting representing a diverse population. Upon completion of the experience, the student will submit the completed Field Experience forms, course work as identified in the syllabus, and verification of professional involvement in the setting. The administrator supervising the leadership candidate will complete this documentation and an evaluation of the candidate, which will be given to the Field Placement Coordinator. This is a fifteen (15) clock hour field experience. (1 semester hour)

EDT 59201 Grant Writing: This course is designed to acquaint candidates with writing grants. During this course, candidates will develop the knowledge and skills to locate funding sources, prepare a grant proposal including a budget. Candidates will be required to submit the proposal to the appropriate funding organization. (1 semester hour)

EDT 59203 Education Law: This course focuses on the local, state and federal laws as they relate to the operation and administration of schools. Special emphasis is placed on current Federal and State Legislation. Candidates will gain an understanding of how legal and political issues impact the school and the community, as well as the ethical rights and legal issues concerning school personnel. (3 semester hours)

EDT 59303 Data Based Decision Making: This course is designed to give candidates the opportunity to see how data drives education policy in decision making. Data-driven decision making is the current focus of school improvement initiatives. Students will learn how to collect and organize data, analyze and communicate data, and use the data for instructional improvement. (3 semester hours)

EDT 59402 School Finance and Economics: This course presents a view of the sources of public school funding and state taxing allocation. School resource management, budget planning, and financial analysis is studied. Focus is given to the financial operations of the school and the effects economic factors have on local schools. (2 semester hours)

EDT 59501 Technology in Leadership and Learning: The importance of technology in administrative and professional practice is focused on in this course. Leadership candidates will learn how technology and instruction for teachers and all students, and help students with disabilities. Focus will be given to how technology has evolved and changed the education system as a support and an instructional mode. (1 semester hour)

EDT 59602 Historical Change and Issues in Administration: This course examines the emergence and development of school leadership and how this transformation occurred. Also, the course will focus on the school leader’s role and how it has been influenced and shaped by a variety of historical forces including social and intellectual movements. Special emphasis will be placed on educational developments that affect school issues and environment. (2 semester hour)
EDT 59703 SUPERVISION AND EVALUATION: This course examines the analysis of different perspectives of supervision. Candidates will evaluate contextual and organizational theories that define the school setting. Candidates will examine the role of planning, management of facilities, assessment procedures, promoting school achievement, and interacting with the external environment. (3 semester hours)

EDT 59802 Internship I: This course is the first internship experience in which educational leadership candidates will participate. Candidates will focus on the application of skills, strategies, and their personal philosophy of education during this internship. The internship experience will begin during the first week of the semester in which the student is enrolled and continue throughout the semester. If the candidate’s action research project extends beyond the 15 week semester they may request an extension of up to one calendar year to complete all the requirements. Prerequisites: In order to enroll in Internship I, the candidate must have successfully completed a minimum of fifteen (15) hours of the Concentration Courses. They must also maintain a 3.0 overall GPA, (B) average in all course work. The candidate must also have been admitted to Candidacy. (2 semester hours)

EDT 59902 Management and Operations for Early Grades: This course focuses on the principal as the instructional leader. Emphasis is placed on the allocation of resources to support students’ and staff members’ learning, and the management of school operations to insure a safe environment that is conducive to learning. (2 semester hours)

EDT 60102 Management and Operations for Middle Grades and Secondary Grades: This course focuses on the principal as the instructional leader. Emphasis is placed on the allocation of resources to support students’ and staff members’ learning, and the management of school operations to insure a safe environment that is conducive to learning. (2 semester hours)

INTERNSHIP II FOR EDUCATIONAL LEADERSHIP* This field/clinical experience is the capstone activity for the Educational Leadership Master Program in the Educational Leadership concentration courses. Educational Leadership candidates will be monitored and evaluated by the university instructors and the educational leader supervising the on-site Internship II. Candidates will keep a log/diary and will plan and implement leadership activities that reflect a strong knowledge-base of the standards for advanced program for Educational Leadership/ Principalship. As the Internship II progresses, the candidate will assume more responsibility from the supervising administrator. The candidate must spend a minimum of one week, five (5) days, with full school administrative responsibility under the supervision of the employed field administrator. This internship will take place in the specific area for which the licensure is being sought. The internship experience will begin during the first week of the semester in which the student is enrolled and continue throughout the semester. If the candidate’s action research project extends beyond the 15 week semester, he/she may request an extension of up to one (1) calendar year to complete all the requirements. Prerequisites: To enroll in this class, candidates must have a successful completion of Core Classes and Concentration Courses, a 3.0 overall GPA; (B) average must be maintained in all coursework in both the Core and Concentration Courses. This is to be the last course taken in the program. (2 semester hours)

ENT – Entrepreneurship

ENT 60103 Foundations of Entrepreneurship: Starting and managing one’s own business: developing a viable concept, organizing the enterprise, market and financial planning, and controlling the organization. Prerequisite: BM -51103

ENT 61103 Small Business Financing and Venture Capital: The purpose of the course is to teach students the considerations associated with the obtaining of venture capital funds as well as the process of acquiring these funds. In addition, students will gain a better understanding of the venture capital system. Prerequisite: FIN-54103

ENT 62103 Social Entrepreneurship: This course will cover the process of creating new independent or corporate ventures that pursue the dual primary missions of social benefit and financial return on investment. These non-profit and for profit ventures have a social mission and aim to be financially self-sufficient or are profit driven. Obstacles and constraints that are faced by social entrepreneurs and surfacing new strategies for them. There are historical and contemporary models to explore the unique range of issues and challenges facing the new social venture. Evaluate the market opportunities for social venture creation and Social capital markets and the tradeoffs between social and financial returns. This course examines the unique management and market strategies for the growing social ventures. Prerequisite: ENT-60103

ENT 63103 Advanced Entrepreneurship: A new form of entrepreneurship is developing. Instead of focusing just on one country, today’s innovative startups are increasingly looking globally for ideas, funding, people and markets. This is particularly true for new companies in various emerging markets but it is also important for many start-ups in the more developed economies (e.g., US, Western Europe and Asia). Prerequisite: ENT-57103 (3 semester hours)

ESS – English Support Services

ESS 11103 Conversation and Listening (3 Credit Hours). MA58803-Conversation) This course emphasizes speaking with the correct emphasis and rhythm, understanding common American English idioms, and following complex directions. It gives the students intensive practice speaking and listening to English. Fall

ESS 11203 Listening and Reporting (3 Credit Hours). MA58803-Listening) This course is designed to bring students to the point that they can take full part in class discussions. It gives them practice in asking and answering questions in class. Students will listen to and view various audio and video materials. Spring

ESS 12104 Reading and Vocabulary I (4 Credit Hours). MA58804-Reading!) This course is designed to show students how to read informative prose with understanding and enlarge their working vocabularies. Fall

ESS 12204 Reading and Vocabulary II (4 Credit Hours). MA58804-ReadingII) This course stresses reading comprehension and inference. It emphasized increasing the students’ vocabularies, both general and structural. Prerequisite: A score of at least 40 on the Michigan Test of English Language Proficiency. Spring
ESS 13104 Writing and Grammar I (4 Credit Hours). (Pre-MBA listing MBA58804-WritingI) This course emphasizes writing paragraphs from personal experience. The grammar studied will include use of articles, quantity expressions, questions, negative and tag questions, and direct and indirect objects. Prerequisite: A score of at least 40 on the Michigan Test of English Language Proficiency. Fall

ESS 13204 Writing and Grammar II (4 Credit Hours). (Pre-MBA listing MBA58804-WritingII) This course emphasizes writing short papers on the students’ own experiences. It includes modals, two-part verbs, it and there as pseudo-subjects, further constructions, comparisons, and embedded sentences. Prerequisite: A score of at least 60 on the Michigan Test of English Language Proficiency or ESS 13104. Spring

ESS 18801-05 Selected Topics in ESS (1 to 5 Credit Hours). A study of topics not included in other course offerings. On Demand

FIN – Finance

FIN 54103 Financial Management: This course examines the role of finance in supporting the functional areas of a firm, and fosters an understanding of how financial decisions can create value. Prerequisite: ACC-54103 (3 semester hours)

IT – Instructional Technology

IT 55103 E-Business Technology: This course focuses on the basic concepts, key issues, and critical technologies of electronic commerce. (3 semester hours)

MKT – Marketing

MKT 56103 Managerial Marketing: This course will focus on the marketing aspect of the business by showing entrepreneurs how to recognize marketing opportunities within the competitive environment and how to utilize the marketing mix to capitalize on them. Prerequisite: ECO-50103 (3 semester hours)

MTH – Mathematics

MTH 21404 Introductory Probability and Statistics: (Pre-MBA listing MBA58804-STAT) This course is an introduction to probability and statistics, topics include: organizing data, graphical presentations of data, measures of central tendency and dispersion, relative standing, normal curve theory, elementary probability, correlation and simple regression, chi-square, and hypothesis testing of means for one and two samples. Mathematics credit is not given for both MTH 21404 and MTH 21603. Prerequisite: A grade of C or better in MTH 11403 or a grade of C or better in NUR 11101 (enrolled Nursing students only) or equivalent skill level as indicated by the score on the placement exam. This course may not be used as mathematics elective. Course fee required. Fall Spring (4 semester hours)
# Certificate Programs:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>4002</td>
<td>Career-Technical Licensure</td>
</tr>
<tr>
<td>9400</td>
<td>Fine Woodworking Certificate</td>
</tr>
<tr>
<td>9402</td>
<td>Welding Certificate</td>
</tr>
<tr>
<td>9204</td>
<td>Information Technology Certificate</td>
</tr>
<tr>
<td>9205</td>
<td>Medical Transcriptionist Certificate</td>
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<tr>
<td>92010</td>
<td>Database Technology</td>
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<tr>
<td>9301</td>
<td>Pharmacology Tech Certificate</td>
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<tr>
<td>9403</td>
<td>Plant Maintenance Certificate</td>
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# Two-Year Degree Program Concentrations:

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<tbody>
<tr>
<td>9220</td>
<td>Accounting – AAB</td>
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<tr>
<td>9227</td>
<td>Administrative Office Assistant – AAB</td>
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<td>1721</td>
<td>Art – AA</td>
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<tr>
<td>9425</td>
<td>Associate of Technical Study – ATS</td>
</tr>
<tr>
<td>94202</td>
<td>Power Plant Operations Technology – ATS</td>
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<tr>
<td>94203</td>
<td>Power Plant Mechanical Maintenance – ATS</td>
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<td>2321</td>
<td>Biology – AS</td>
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<tr>
<td>9221</td>
<td>Business Management – AAB</td>
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<td>4020</td>
<td>Career Technical Program OH – AAS</td>
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<td>2421</td>
<td>Chemistry – AS</td>
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<td>0921</td>
<td>Communication – AA</td>
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<td>93204</td>
<td>Diagnostic Medical Sonography – AAS</td>
</tr>
<tr>
<td>4021</td>
<td>Early Childhood Licensure – AAS</td>
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<tr>
<td>9426</td>
<td>ET: Industrial Automation Option – AAS</td>
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<tr>
<td>94201</td>
<td>ET: Network Systems Option – AAS</td>
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<tr>
<td>9424</td>
<td>Fine Woodworking Technology – AAS</td>
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<td>9027</td>
<td>General Studies – AA</td>
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<tr>
<td>1520</td>
<td>History – AA</td>
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<tr>
<td>92203</td>
<td>Information Technology – AAB</td>
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<tr>
<td>92204</td>
<td>IT: Information &amp; Support – AAS</td>
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<tr>
<td>92205</td>
<td>IT: Network Systems-AAS</td>
</tr>
<tr>
<td>92206</td>
<td>IT: Programming &amp; Software Development – AAS</td>
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<tr>
<td>9228</td>
<td>Legal Office Assistant – AAB</td>
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<tr>
<td>9423</td>
<td>Manufacturing Technology – AAS</td>
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<td>Plant Maintenance Technology – AAS</td>
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<td>3520</td>
<td>Psychology – AA</td>
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<td>93203</td>
<td>Radiologic Technology – AAS</td>
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<td>Respiratory Therapy – AAS</td>
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<td>3120</td>
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<td>3620</td>
<td>Sociology – AA</td>
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<td>1721</td>
<td>Visual Art – AA</td>
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# Four-Year Minor Programs:

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<td>Biology</td>
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<td>0932</td>
<td>Communication (PRCOM)</td>
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<td>30310</td>
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<td>3032</td>
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<td>1430</td>
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<td>2730</td>
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<tr>
<td>7431</td>
<td>Health</td>
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<td>30335</td>
<td>Health Care Administration</td>
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<td>1530</td>
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<td>3039</td>
<td>Information Technology</td>
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<td>3035</td>
<td>Marketing</td>
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<td>Mathematics</td>
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<tr>
<td>1030</td>
<td>Music</td>
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<td>1630</td>
<td>Philosophy</td>
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<td>1747</td>
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<td>Physics</td>
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<td>Psychology</td>
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<td>Sociology</td>
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<tr>
<td>1330</td>
<td>Spanish</td>
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<tr>
<td>1531</td>
<td>Welsh</td>
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# Four-Year Comprehensive Major Program Concentrations:

(No Minor Required)

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<tbody>
<tr>
<td>3040</td>
<td>Accounting – BS</td>
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<tr>
<td>3640</td>
<td>Archaeology – BS</td>
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<tr>
<td>09461</td>
<td>Behavioral and Social Science – BS</td>
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<tr>
<td>3041</td>
<td>Business Management</td>
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<tr>
<td>2442</td>
<td>Chemistry – BS</td>
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<tr>
<td>7942</td>
<td>Clinical Laboratory Science – BS</td>
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<tr>
<td>0941</td>
<td>Communication Comprehensive – BS</td>
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<tr>
<td>0950</td>
<td>Professional &amp; Business Communications - BS</td>
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<tr>
<td>7943</td>
<td>Diagnostic Medical Sonography – BS</td>
</tr>
<tr>
<td>2342</td>
<td>Environmental Science</td>
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<td>1340</td>
<td>Hispanic Studies/Spanish – BA</td>
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<tr>
<td>30491</td>
<td>Information Technology – BS</td>
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<tr>
<td>0945</td>
<td>Individualized Degree Program (requires Academic Affairs’ approval)</td>
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<tr>
<td>5040</td>
<td>Industrial Technology – BSIT</td>
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<tr>
<td>09402</td>
<td>Integrated Studies - BS</td>
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<tr>
<td>3043</td>
<td>Marketing – BS</td>
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<tr>
<td>10411</td>
<td>Music Comprehensive – BA</td>
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<td>10412</td>
<td>Music Business Comprehensive – BA</td>
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<tr>
<td>7141</td>
<td>Nursing – BSN</td>
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<td>3141</td>
<td>Social Work-Accepted – BSW</td>
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<td>5050</td>
<td>Technical Studies – BTS</td>
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<td>1750</td>
<td>Visual Arts – General – BFA</td>
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<td>1760</td>
<td>Visual Arts – 2-D Art – BFA</td>
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<tr>
<td>1770</td>
<td>Visual Arts – 3-D Art – BFA</td>
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<tr>
<td>1780</td>
<td>Visual Arts – Graphic Design – BFA</td>
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<tr>
<td>2343</td>
<td>Wildlife &amp; Fish Conservation &amp; Management – BS</td>
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# Four-Year Major Program Concentrations: (Minor Required)

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<td>2340</td>
<td>Biology -BS</td>
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<td>3046</td>
<td>Computer Science -BS</td>
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<tr>
<td>14401</td>
<td>English-BA</td>
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<tr>
<td>1540</td>
<td>History-BS</td>
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<tr>
<td>15401</td>
<td>History-BA</td>
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<tr>
<td>2840</td>
<td>Mathematics-BS</td>
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<tr>
<td>3541</td>
<td>Psychology-BS</td>
</tr>
<tr>
<td>7441</td>
<td>Sports &amp; Exercise Studies-BS</td>
</tr>
</tbody>
</table>
Education: Licensures-BS (Comprehensive Majors, Majors, and Concentrations)

40401 Early Childhood Pre-K thru 3 Comp Major
40470 Intervention Specialist K-12 Comp Major

Middle Childhood (Grades 4-9) Major requiring two areas of concentrations:

- 40415 Mid Child: Lang Arts/Soc Stds
- 40416 Mid Child: Lang Arts/Math
- 40417 Mid Child: Lang Arts/Science
- 40418 Mid Child: Soc Studies/Math
- 40419 Mid Child: Soc Studies/Science
- 40420 Mid Child: Math/Science

Adolescent to Young Adult (Grades 7-12) Major requiring one of the following concentrations:

- 40431 AYA: Integrated Language Arts
- 40432 AYA: Integrated Mathematics
- 40433 AYA: Life Sciences

- 40434 AYA: Integrated Social Studies
- 40435 AYA: Physical Sciences

Multi-Age Pre-K thru 12 Major requiring one of the following concentrations:

- 40451 Multi-Age: Visual Arts
- 40453 Multi-Age: Music
- 40454 Multi-Age: Physical Education

Master Degree Programs:

- 40520 Educational Leadership -M.Ed.
- 4055 Intervention Spec-M/M- M.Ed.
- 40510 Intervention Speclst-EC-M.Ed.
- 4999 Pre-MBA
- 5000 MBA
Private Donor Scholarships

Alberta Koehler Scholarship Endowment
Alice Frye & Robert L. Rannells Scholarship
Alpha Sigma Phi Scholarship
Alumni Association Scholarship
Aramark Facilities Services Scholarship
Arthur E. Kisor Memorial Scholarship
Athena - Chi Omega Alpha Alumni Scholarship
Atwood Scholarship Endowment
Axel & Selma Dahlberg Memorial Scholarship
Bank One-Gallipolis
Ben R. Evans Memorial Scholarship
Bevo Francis Scholarship for Athletes
Cariseo Scholarship
Carl Dahlberg Scholarship
Carolyn Ward Quittner Scholarship
Central Benefits Mutual Insurance Company Nursing Scholarship Endowment
Central Ohio Alumni Association Scholarship
Charles A. Frueauff Foundation Nursing Scholarship
Charles A. Frueauff Foundation Scholarship
Clark Baker Scholarship for Athletics
Cyril B. Harpster Scholarship
Dailey Scholarship Fund
Daniel M. and Ruth M. Evans Scholarship Fund
David K. and Ann W. McCarrell Scholarship Endowment
David L., and Margaret Jenkins Evans Memorial Scholarship Fund
Davis Family Trust
Dillon Memorial
Don Allen Memorial Scholarship
Don G. and Connie Pullin Scholarship for Meigs Center
Donald and Dorothy Rice Scholarship
Dr. and Mrs. Ernest R. Miller Scholarship
Dr. David and Ann McCarrell History Prize
Dr. Earl J. Levine Scholarship Fund
Dr. Francis W. Shane Scholarship Fund
Evans E. Davis/Oak Hill Bank Scholarship
Evans E. and Elizabeth Davis Soccer Scholarship
Edward Roark Memorial Scholarship
Edward E. Davis Memorial Scholarship Endowment
Edward O. McCowen Scholarship Fund
Edwin A. Jones Scholarship
Edwin and Lola Jones Scholarship
Elizabeth Baur Memorial Scholarship
Elizabeth Harmrick Memorial Scholarship
Ella Rothgeb Memorial Loan Fund
Ellen Pratt Scholarship Fund
Elva Fulks Memorial Scholarship in Nursing
Eulah Williams Memorial Scholarship
Fraternal Order of Archon
Fletcher Benton Scholarship
Fred Gilbert and James O. Frownfelter Memorial Scholarship
Gallipolis Jaycee’s Scholarship
Gallipolis Saddle & Sirloin Riding Club Scholarship
Garland and Jennie Elliot Scholarship
George H. Deuble Foundation Scholarship
Grace Davis Will Scholarship Endowment
Greg Neff Memorial Scholarship
Gwenzilla Runyan Scholarship (GRR Memorial Scholarship)
Harland and Freda Martin Scholarship for Nursing
Harold E. Wiseman Memorial Scholarship
J. Perry Bradbury Memorial Scholarship
J. W. and Harty Blazer Weatherholt Memorial Scholarship
James L. ‘Red’ Dutley Memorial Scholarship
James O. Brannon Memorial Scholarship
James T. & Effa W. Weed Scholarship
Janice Hagen Memorial Scholarship Fund
John C. Wickline Scholarship
John Ellis Evans Scholarship
John F. Stiffler Family Scholarship
John L. Beckley Scholarship
Judge Frank Eaton Memorial Scholarship
Kautz Chester Alumni Association Scholarship
Kermit & Helen Daugherty Scholarship
Keith & Evelyn Brandenberg Nursing Scholarship
L. O. & Henrietta Howard Soccer Scholarship
Lawrence County-“Red” Dutley Memorial Scholarship
Lee O. Ramey Scholarship
Lenora M. Campbell Memorial Scholarship Fund
Leo C. Hill Scholarship
Leo Crowenover Memorial Scholarship
Leonard Webb Memorial Scholarship
Louis L. & Ida E. Preston Memorial Scholarship Fund
Luella R. Snyder Scholarship
Lyonia Clark Bunce Scholarship
Manufacturing Technology Scholarship
Margaret A. (Peg) Thomas Scholarship Fund
Mark Cappel Memorial Scholarship Fund
Mary C. Walden Scholarship
Mary Martin Chambers Memorial Scholarship
Mary Lou Crawford Scholarship Fund
Matilda Saunders Memorial Scholarship
Max W. Morrow Scholarship Fund
McDonald’s Restaurant Scholarship Fund
McNelly, Patrick & Associates Scholarship Endowment
Merlyn Ross Memorial Scholarship
Michael Jenkins Scholarship
Milton Banking Company of Wellston Scholarship
Morris E. & Dorothy W. Haskins Scholarship
Mr. and Mrs. Sidney H. Fadely Memorial Scholarship
Myron Morgan Scholarship
Myrtle Fox 52-53 Team Scholarship
Nationwide Insurance Foundation Scholarship Endowment
Nellie and Floyd Six Scholarship
Nellie Zimmerman Will Scholarship
Oder Family Scholarship
Ohio Valley Bank Scholarship
Paul Dovyak Social Work Alumni Scholarship
Paul M. Mutzig Jr. Memorial Fund
Pauline Graham Scholarship
People’s Banking and Trust Company of Middleport Scholarship
Professional Education Scholarship
Racine Home National Bank Scholarship
Ray and Pearl Carter Dyer Memorial Scholarship Fund
Ray Matura Scholarship
Robbins & Myers Scholarship Fund
Robert H. Eastman Scholarship
Robert S. Jenkins Scholarship
Robert S. Wood Scholarship
Roland G. Will Scholarship
RSR Enterprises Endowment Scholarship
Russell Smith Scholarship
Ryan Keefer Memorial Scholarship
Saunders Memorial Scholarship
Scott Buckland and William T. Hall Scholarship
Stanley L. Evans Memorial Scholarship Endowment
Stanley L. Evans Scholarship Endowment
Star Bank, N.A. Tri-State Scholarship
T. K. & Ruth Owens Scholarship
The Albert and Myrtle Essman Memorial Scholarship Fund
The Barry M. Dorsey Scholarship
The Blue Cross - Blue Shield of Ohio Athletic Scholarship
The Cloene “Sammy” Samuels Scholarship
The Clonch/Dyer Scholarship Fund
The D. Lester and Gladys Clyse Davis Scholarship
The Delta Epsilon of Alpha Sigma Phi Fraternity Scholarship
The Donald & Maxine Scott Scholarship
The Dorothy Daniel Hayes University of Rio Grande Endowed Scholarship
The Dr. Daniel T. Jenkins Scholarship
The Dr. Keith and Evelyn Brandeberry Nursing Scholarship
The First National Bank of Wellston Scholarship Fund
The Friends of Bob Evans Scholarship
The G. Edward & Christine Spees Family Scholarship
The Harrison-Northup Scholarship to support the Harrison/Northup Scholar(s)
The Henry E. and Marjorie M. Fruth Scholarship Fund
The Jack E. and Frances R. Fruth Scholarship Fund
The Jack E. and Frances R. Fruth Meigs Center Scholarship
The James D. Euler Scholarship Endowment
The Jean E. Gloss Scholarship
The Kevin E. Smith Scholarship
The Luther M. Jones Memorial Scholarship
The Luther M. Jones Scholarship Endowment
The Luther M. Jones Scholarship Loan
The Marjorie Biddle Halliday Scholarship
The Mark Abell URG Honor Scholarship
The Myron Herrick Fowler Scholarship
The Oak Hill High School Class of ’54 Memorial Scholarship
The Paul H. and Leah B. Harrison Scholarship
The Paula Marie Wood Memorial Scholarship
The Philip & Mary Jenkins Memorial Scholarship
The Pillsbury - Gregory T. Neff Memorial Scholarship
The Powell - Lamb Scholarship to support the Powell/Lamb Scholar(s)
The Ralph J. Cariseo, Sr. and Catherine P. Cariseo Scholarship
The Ralph Taylor Scholarship
The Robert L. and Alice Frye Rannells Endowment
The Ronald K. Glover Athletic Scholarship
The Thomas and Jane Stowers Osborne Scholarship
The University Women's Club Athletic Scholarship for Women
The University Women's Club Mary Christensen Scholarship
The University Women's Club Scholarship
The University Women's Club Scholarship in memory of Mary Lewis

The William C. McDonald Scholarship Fund
The William Randolph Hearst Foundation Scholarship
The Withee Scholarship Endowment
Thomas A. Jenkins and Mabel W. Jenkins Memorial Nursing Education Fund
Thomas A. Jenkins Scholarship
Thomas Bailes Loan Fund
Thomas L and Catherine R Carlisle Scholarship
Thomas O. and Nina G. Denney Memorial Scholarship
Tim and Betty Evans Scholarship Fund
Unity Savings Bank Scholarship
URG Endowed Scholarship
Vinton County National Bank Scholarship
Virginia Lloyd Kunkle Scholarship
Warren F. & Phyllis Williamson Sheets Scholarship Fund
Willa Breland Loan Fund
William A. & Mary L. Lewis Scholarship Endowment
William A. Lewis Scholarship
William Freytag Memorial Scholarship
William Judd Scholarship
William L. Cooper Scholarship
William T. Hull Scholarship
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<thead>
<tr>
<th>Name</th>
<th>Title and Notes</th>
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</thead>
<tbody>
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<td>Mark F. Abell, M.Ed.</td>
<td>Dean, Enrollment Management</td>
</tr>
<tr>
<td>Luanne R. Bowman, M.B.A</td>
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<td></td>
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<td>Debbie Browning, M.Ed.</td>
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Annette Ward, Recording Secretary

Roster of Officers and Members of Classes

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Steven B. Chapman 1996 Gallipolis, OH
Alice A. Dachowski 2003 Gallipolis, OH
Larry Guglielmi 2011 Worthington, OH
Ron K. Glover 1983 Long Lakes, MN
Stanley E. Harrison 1987 Winchester, VA
Alan A. Stockmeister 1998 Jackson, OH

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Petrea A. Brown 2005 Jackson, OH
C. Michael Reardon 2005 Wooster, OH
Mel P. Simon 1994 Gallipolis, OH
Donald P. Wood 2005 Athens, OH

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J. Gregory Fields 1989 Jackson, OH
Jack R. Finch 2002 Chesapeake, OH
Robert Foster 2010 Gallipolis, OH
Lee Saltzgaber 2011 Bidwell, OH
Jeffrey E. Smith 1984 Gallipolis, OH
Daniel Whiteley 1981 Gallipolis, OH
Roger D. Williams 1979 Columbus, OH

CLASS OF 2014 ....... BEGAN TERM ....... CITY AND STATE
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Beth S. Evans 2003 Gallipolis, OH
Clyde Evans 2011 Rio Grande, OH
John D. Kidd 1982 Jackson, OH
Richard P. LeGrand 2011 Jackson, OH
Mary McCurdy Pierce 2010 Pickerington, OH
Ned I. Riegel 1982 Circleville, OH
Gerald E. Roach 2002 Gallipolis, OH
Stacie Vaughn Hutton 2010 Dublin, OH
David Wilhelm 2011 Gahanna, OH

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Robert S. Wood 1974 Canal Winchester, OH
Carol Haskins Wedge 1995 Bowling Green, KY
Lothar Vasholz 1987 Palm Desert, CA

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J. Tim Evans 1978 Gallipolis, OH
James P. Fenstermaker 1985 Groveport, OH
J. Newton Oliver 1972 Springfield, OH

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Esther B. Greer ........................................ 1981
Charles A. Weed ........................................ 1981
Francis W. Shane ........................................ 1982
Samuel S. Davis ........................................ 1983
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Jody W. Walker 2006 McArthur, OH
Lawrence (Larry) Kidd 2011 Jackson, OH

Trustee Emeritus
Polly Wetherholt 1997 Gallipolis, OH
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