2017-2018 Catalog

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

Notice of Nondiscriminatory Policy

Under Title IX of the 1972 Education Amendments, no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity operated by the University of Rio Grande or Rio Grande Community College (“Rio Grande”). Title IX ensures equal access to those programs and activities for our students and employees of all gender identities. Rio Grande is dedicated to providing a safe environment for students, faculty, and staff.

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 Officer/Director of Human Resources of the University and the Community College, (740) 245-7228, or 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 discrimination based on race, color, sex, sexual orientation, gender, genetic information, gender identity, genetic information, religion, disability, age marital status, national or ethnic origin, socioeconomic status, veteran status, political affiliation or other characteristics protected by federal, state, or local law. Inquiries in the regard should be directed to the President of the University of Rio Grande and 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 2017 through Summer 2018.
ACADEMIC CALENDAR

Fall 2017
August 21, 2017...............................Classes Begin
September 04, 2017....................... Labor Day
October 13, 2017............................ Community Service Day
November 22, 2017.......................... Fall Break
November 23-24, 2017.................... Thanksgiving
December 04-07, 2017..................... Final Exams

Spring 2018
January 08, 2018............................ Classes Begin
January 15, 2018............................. Martin Luther King Day
February 19, 2018........................... President’s Day
March 05-09, 2018........................... Spring Break
April 30 – May 03, 2018.................... Final Exams
May 05, 2018................................. Commencement

Summer 2018
June 04, 2018................................... Summer I & 10-Week Begins
July 06, 2018.................................... Summer I Ends
July 09, 2018................................... Summer II Begins
August 10, 2018.............................. Summer II & 10-Week Ends

Fall 2018
August 20, 2018...............................Classes Begin
September 03, 2018........................... Labor Day
October 12, 2018............................. Community Service Day
November 21, 2018.......................... Fall Break
November 22-23, 2018.................... Thanksgiving
December 03-06, 2018..................... Final Exams

Spring 2019
January 07, 2019............................. Classes Begin
January 21, 2019............................. Martin Luther King Day
February 18, 2019............................ President’s Day
March 04-08, 2019........................... Spring Break
April 19, 2019.................................. Spring Holiday
April 29 – May 02, 2019.................... Final Exams
May 04, 2019................................. Commencement

Summer 2019
June 03, 2019.................................. Summer I & 10-Week Begins
July 05, 2019................................... Summer I Ends
July 08, 2019................................... Summer II Begins
August 09, 2019.............................. Summer II & 10-Week Ends
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INTRODUCTION TO RIO GRANDE

Introduction
The University of Rio Grande (URG), 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 (RGCC), established in 1974, offers a wide range of services, including career programs, associate degree 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, Educational Leadership for Principal’s License, Superintendent’s Licensure Program, Athletic Coaching Leadership, and Integrated Arts.

Mission Statement
The University of Rio Grande/Rio Grande Community College is America’s unique private/public institution of higher education designed to provide learners the opportunity to attain a high quality, high-value education. Our personalized, learner-centered environment promotes successful lives, careers, and responsible citizenship.

Rio Grande Community College 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 offers:
• Access to a broad array of associate, bachelor, and master 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.

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 the Provost.

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. 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.

Accreditation and Memberships
The University of Rio Grande is accredited by the Higher Learning Commission, www.hlcommission.org, 230 South LaSalle Street, Suite 7-500, Chicago, IL, 60604. Phone: 800.621.7440. 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, and it is accredited by the Council for the Accreditation of Educator Preparation, 1140 19th St NW, Suite 400 Washington, DC 20036, (202) 223-0077. The associate degree in Nursing has approval status from the Ohio Board of Nursing and the University of Rio Grande Holzer School of Nursing programs are accredited by the Accreditation Commission for Education in Nursing (ACEN – Accreditation Commission for Education in Nursing, 3343 Peachtree Rd NE, Suite 850, Atlanta, GA 30326, (404) 975-5000). The Radiologic Technology Program has been approved by the Ohio Board of Regents and is accredited by the Joint Review Committee in Radiologic Technology, 20 N. Wacker Drive, Suite 2850, Chicago, IL, 60606-3182. Phone: 312.704.5300, www.jrcert.org The Diagnostic Medical Sonography General Concentration and the Cardiovascular Concentration Programs are approved by the Ohio Department of Higher Education and are accredited by CAHME (Commission on Accreditation of Allied Health Education Programs), 1361 Park St., Clearwater, FL, 33756. Phone: 727.210.2350, www.cahep.org The Respiratory Therapy Program is approved by the Ohio Department of Higher Education and is accredited by the Commission on Accreditation for Respiratory Care (CoARC), 1248 Harwood Road, Bedford, TX, 76021, Phone: 817.283.2835, www.coarc.com/. The baccalaureate degree in Social Work is accredited by the Council on Social Work Education. The School of Business is accredited by the International Assembly for Collegiate Business Education (IACBE), 1134 Strang Line Road, Lenexa, Kansas, 66215. Phone: 913-631-3009, iacbe.org.

The University of Rio Grande is a member of the following organizations: American Association of Colleges; Ohio Association of Private Colleges for Teacher Education; Council on Social Work Education; International Assembly of Collegiate Business Education; American Association of Collegiate Registrars and Admissions Officers (AACRAO); American College Health Association; 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 Association of College and University Business Officers; National Association for Campus Activities; National Association of Intercollegiate Athletics; National Collegiate Honors Council; Mid-East Honors Association; Ohio College Association; National Organization for Associate Degree Nursing; National League of Nursing Councils of Associate Degree Programs and Baccalaureate Degree Programs; Ohio Association of Collegiate Registrars and Admissions Officers (OACRAO); Ohio Association of Community Colleges; 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 four endowed Chairs named in honor of Harland Martin, William A. Lewis, Ina Alban, 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 POLICIES AND PROCEDURES

URG and RGCC Office of Admissions, Florence Evans Hall, PO Box 500, Rio Grande, OH 45674
740.245.7208 or 800.282.7201 office; 740.245.7260 fax;
email: admissions@rio.edu

Admission Policy
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, socio-economic 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 Education, Radiologic Technology, Diagnostic Medical Sonography, Respiratory Therapy, or the Honors program must also submit (ACT/SAT) 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
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 245-7439 and is located in James A. Rhodes Student Center, Room 118, University of Rio Grande.

**Mental Health Statement**  
As a student, you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce your ability to participate in daily activities. Services are available to assist you with addressing these and other concerns you may be experiencing. Contact the Office of Accessibility (740.245.7439) to learn more about the confidential mental health services available to you.

**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 the FERPA section of the Student Handbook for details and more information.

**International Students**  
International students are requested to submit the following:

- An international student application,
- A transcript of secondary school credits verifying graduation,
- All post-secondary school transcripts (if applicable),
- Copy of passport,
- An official statement from a sponsor or bank documenting financial support,
- Proof of medical/accident insurance that has a policy covering the United States,
- A completed college medical physical examination form and completed immunization requirements.

International students who are placed in the English as a Second Language (ESS) language support sequence as a result of English language placement proficiency testing are required to enroll in the ESS sequence. Upon satisfactory completion of the ESS sequence, students will be retested prior to placement in the subsequent English course. Additional ESS
coursework may be required, based on exit testing.

**College Readiness Coursework**
College Readiness coursework is required for students who do not placement test directly into college freshman-level English and mathematics courses. Designed to academically prepare and support students who have demonstrated the need for additional skills in order to successfully engage in college-level coursework, this coursework needs to be taken within the first term.

**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 an associate or bachelor 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 11803 Algebra Pilot, 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 Office of the Registrar, the Transient Student Course Approval Form must be approved by the student’s academic advisor and returned to the Office of the Registrar for filing.

**Senior Citizen/Extended Education Student**
Any student who is age 60 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 is 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 the specific 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 will also 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.

**College Credit Plus (CCP)**
The College Credit Plus Program allows students to earn college and high school credits at the same time by taking college courses from Rio Grande. The intent of this program is to promote rigorous academic pursuits and to provide a wide range of options to college-ready students. 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. Specific requirements for admission as a CCP student are available in the Admissions Office.

Honors Program
The Rio Grande Honors Program engages gifted students through a specialized curriculum, Honors seminars, and a capstone project that challenges all perceptions to achieve maximum potential. The Honors Program is open to incoming students who meet two of the following three criteria: upper 10% of high school graduating class, 3.5 high school GPA, and ACT composite score of 25. The Honors Program is open to current Rio students who have a 3.25 minimum GPA after completing at least eight credit hours. See also Honors Program in the Academic Programs, Policies, and Services section of the catalog.

COSTS AND FINANCIAL AID

URG Business Office, Florence Evans Hall, PO Box 500
F-26, Rio Grande, OH 45674
740.245.7226 office; email: businessoffice@rio.edu

URG Office of Financial Aid, Florence Evans, 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, Florence Evans, 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, at 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/business-office/documents/TuitionCost2017-2018.pdf

Terms of Payment
Payment is due one week prior to the first day of the term. Payment must be received on or before the due date to avoid late fees. Postmarks will not be reviewed.

If a student is a participant of third party billing (e.g. BVR, CAA, TAA, VA, WIA, Jobs & Family Services or Workforce Development), it is the student’s responsibility to provide documentation to the Business Office. Appropriate documentation may be faxed to the Business Office 740-245-7171 on or before the stated due date.

Payment Options
1. Check – a check for the balance due may be mailed to the address below. Do not send cash.
   a. University of Rio Grande
   b. P.O. Box 500 F-26
   c. Rio Grande, OH 45674
2. Telecheck – By telephone – call the Business Office at 740-245-7226 for telecheck, credit/debit care (VISA, MasterCard, Discover, and American Express)
3. Credit/Debit Card Online – credit/debit card payment can be made by logging into your account at https://hope.rio.edu/ studentspace/PyByCredit.aspx VISA, MasterCard, Discover, and American Express are accepted.
4. In Person At Reardon One-Stop Center, Florence Evans 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 throughout the semester. An enrollment fee is charged for this option. For more information, contact the Business Office at 1-800-282-7201, extension 7226 or at the University of Rio Grande website at: http://www.rio.edu/Business-Office/Resources/StudentInstallmentPaymentPlan.pdf.
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 finaid@rio.edu.
Returned Check Fees
Upon the receipt of a returned check, the University of Rio Grande will send the student and/or check owner an email detailing the reason for return and amount due. Returned check payments must be made with cash, cashier’s check, credit card, 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.

Late Payment Fee
There will be a 1.5% late payment fee after the payment deadline. The fee will be recalculated, on the remaining balance, each billing cycle until the balance is paid in full.

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 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 after the third week of an academic semester or fourth day of a summer term will not receive a refund of charges for room, institutional fee, comprehensive fee, parking fee, insurance or late registration fee, and other fees.

Advanced Room Deposit - Advanced room deposits are non-refundable.

Important Drop/Withdraw information
It is your responsibility to drop or withdraw from courses you do not plan to attend. Your classes will NOT be automatically dropped for non-attendance. After the add/drop 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. (Also see 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

Withdraw
For a student withdrawing (see policy regarding “Withdrawal” in the Catalog) the following refund schedule will be used:

First calendar week of any semester ....................... 100%
First - Second day of summer term ....................... 100%
Second calendar week of any semester ................. 50%
Third and fourth day of summer term ................. 50%
Third calendar week of any semester ................. 25%
Fifth day of summer term .................................. 25%

A student withdrawn for disciplinary reasons will receive no refund of any charges, except board which will be pro-rated.

Course Fees (RGCC Only)
Special fees for consumable materials, lab supplies, and use of expensive equipment, transportation, or rental of facilities may be charged in addition to tuition for some courses. The cost of student liability insurance, required in certain health technologies, will be included in the course fee. Students should check the information provided in the course listings in Catalog for courses with additional fees. Fee amounts can be found from http://www.rio.edu/Current Students/Business Office/Tuition and Fees/Course Fees 2017-2018.pdf
Internet Course Fees/ Internet Hybrid Fee (RGCC Only)
The internet course fee is for online and blended courses. This fee is used to support the broad infrastructure needs essential to online instruction and technology-enhanced mixed-mode courses and programs. Fee amounts can be found at http://www.rio.edu/Current Students/Business Office/Tuition and Fees/Course Fees 2017-2018.pdf

Institutional Fee
The Institutional fee defrays the cost of registration, student activities services, and student support services of a non-instructional nature.

Comprehensive Fee
The Comprehensive Fee is used to maintain technology infrastructure, to expand technology-enhanced learning, library and other campus facilities, student services, and athletic facilities.

Late Registration Fee
There will be a late registration fee charged to student account if:
1. The class is registered four weeks before the first day of class for any semesters.
2. The class is registered one week before the first day of any semester for new and transferred students.

Change of Registration (ADD/DROP) Fee
The change registration fee will be charged to student account if the class is added or dropped starting the first day of any semester.

Student ID
When arriving at the Business 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 full-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 Department of Higher Education 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 assists students and families with the cost of a college education. While financial assistance from employers, federal, state, institutional, and other sources may help pay a large portion of 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 Florence Evans Hall, Reardon One Stop Center.

Financial Aid Available for Qualified Students
How much financial aid students are eligible to receive at Rio Grande depends on two different factors: merit and need.

Merit-based aid is determined based on special achievement or a specific talent. The most common type of merit-based aid are scholarships, which typically come from either outside sources or Rio Grande. All of Rio Grande’s merit scholarships are listed under the scholarships tab on our financial aid homepage.

The majority of financial aid offered to Rio Grande students is need-based aid, which is generally determined by your Expected Family Contribution (EFC), year in school, enrollment status, and cost of attendance (COA).

The formula to determine financial need is:
Cost of Attendance (COA) – Expected Family Contribution (EFC) = Eligibility for need-based aid

Cost of Attendance (COA) is used to determine eligibility for financial aid and reflects the different estimated costs to attend Rio Grande. This budget is comprised of; direct costs (tuition and fees, on-campus room and board), and indirect costs (transportation, personal miscellaneous expenses, books and supplies, and off-campus living). Rio Grande’s Cost of Attendance is posted on our financial aid webpage under eligibility.

The actual cost of attending Rio Grande may differ from the estimated COA used to determine eligibility for financial aid.

Expected Family Contribution (EFC) is the amount students and their family are expected to pay toward a college education. This is calculated using a formula established by the U.S. Department of Education based on the information the student and their family provide on the Free Application for Federal Student Aid (FAFSA)

Eligibility for need-based aid is the result of COA minus EFC, and establishes the different Federal and State aid eligibility annually. It is important to note that while the goal is to meet the full-demonstrated need of students, limited resources do not always allow this to happen. In cases where a student receives assistance in an amount less than the demonstrated financial need, families may need to pay more than the calculated EFC in order to cover the costs associated with enrollment at Rio Grande.

Types of need-based financial aid include:
1. Federal – Federal financial aid, also known as Federal Title IV Aid, includes Pell Grant, Supplemental Educational Opportunity Grant (SEOG), Perkins Loan, Stafford Loan, Federal Work Study, and Federal TEACH Grant. All of these are available at University of Rio Grande and Rio Grande Community College. Students must complete a FAFSA (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 FAFSA (Free Application for Federal Student Aid) and be considered university status to be eligible for state aid.

3. **Private** – Many private and local organizations have grants and scholarships available to students who meet certain criteria. All students are encouraged 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 educational costs. The following websites are recommended 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. Enrolling in less than 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.

**Application Directions**

Students interested in applying for financial aid must complete the Free Application for Federal Student Aid (FAFSA) beginning October 1 annually. The FAFSA can be submitted by completing a paper FAFSA, FAFSA 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.

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) and Federal Work Study are programs that are awarded on a first-come, first-serve basis to 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 an E-mailed or mailed Award Letter, and returning students via E-mail.

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 remains active up to 10 years. This means that once a student completes the MPN, another MPN is not required for borrowing for 10 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 the federal loan website at (www.studentloans.gov).

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 loan options are available in the Financial Aid Office and on the website (http://www.rio.edu/financial-aid/Loans.cfm). Please contact the Financial Aid Office (phone: 740.245.7218, e-mail: finaid@rio.edu) to apply for an alternative loan or if additional information is required.

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**

A student may be eligible to apply for a Special Circumstance 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
- Sibling private school tuition paid
- One-time lump sum payment

A change of circumstance may change a student’s financial aid eligibility. The granting of Special Circumstance is based solely on the professional judgement 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.

**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 assistance under the programs authorized by Title IV of 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 Grande 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 Policy**

Any student receiving financial assistance who does not meet the satisfactory academic progress requirements during a review at the end of each spring semester will receive an E-mail notification of Suspension. Institutional, Federal, and/or State financial aid will not be applied while a student is on Financial Aid Suspension. The student is responsible for ensuring that the grade point average and hours-earned data submitted by the Office of the Registrar is 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</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, NF, NW, U, 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 reached 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, and other extraordinary situations such as natural disasters.

The student must make sure that date specific supporting documentation is attached to the appeal request. Letters from parents and family members are not acceptable; if this is the only information available, the student 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 the 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 he or she is 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, he or she 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 E-mailed via Rio Grande student account. The appeal decision is final and no other appeal process is available.

Appeal deadlines will be posted on the Rio Grande Financial Aid webpage. The Standards of Academic Progress and Maximum Time Frame appeal forms with instructions are posted online under financial aid forms, or students may request the forms through the financial aid office during normal business hours.

Re-establishing Satisfactory Academic Progress
After financial aid has been suspended, students may re-establish satisfactory academic progress by the following methods:
- Attend classes at their own expense and improve hours and/or semester grade point average to meet the required academic standards.
- Students may also file an SAP appeal form and required documentation to the Financial Aid Office by a specific deadline listed on the Financial Aid website.

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 prior to the 61% point of the term may be required to repay funds to the program(s) from which such funds were received. This includes withdrawing from all courses after completing an accelerated session (such as a first 8-week session).

Title IV aid programs include: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (SEOG), Stafford Subsidized, Unsubsidized, and Parent PLUS Loans. Please refer to our website at http://www.rio.edu/financial-aid/index.cfm for more information.

STUDENT AFFAIRS

Student Services, Rhodes Student Center, PO Box 500
Rio Grande, OH 45674
740.245.7350 office
Mission Statement
The Office of Student Affairs provides the University community with programs and services, in support of academic mission, that assist and empower students to achieve their highest educational potential. Student Affairs works closely with faculty, staff, students, and the community to create a stimulating and inclusive educational environment that is conducive to the holistic growth and development of students. Student Affairs promotes excellence through collaborative services, which strive to be responsive, caring, and personal. This commitment to students initiates prior to entrance, sustains through matriculation, and continues beyond graduation.

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 four 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 four resident communities consist of:
- Moulton Hall – First Year Male
- Davis Hall – First Year Female
- Holzer –Upper Class Co-ed
- Wellness –Upper Class Co-ed

The Director of Housing is located in the James A. Rhodes Student Center. Office Phone (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 Engagement
The Student Activities Calendar is planned as a compliment 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, multicultural, and intellectual activities. Student Activities organizes events on campus including (1). Welcome Back Weekend (2). Halloween and (3). Homecoming Family Day.

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 is a free medical clinic available to all students. It is located in the James A. Rhodes Student Center, and is operated under the direction of a Registered Nurse. Health Services is open from 8:00 a.m. to 12:00 p.m. and 1:00 p.m. to 5:00 p.m. each weekday for basic treatment of illnesses and injuries. Students requiring more extensive medical care are referred to physicians or 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 Alcohol and Drug Prevention Educator offers free assistance to students who may have a problem with drug and/or alcohol abuse. The Prevention Office is located 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 are the responsibility of the students.

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) 245-7439 and is located in Rhodes Hall, Room 118.

Mental Health Services
A professional counselor is also available on campus two days a week for students with personal or emotional issues such as family conflicts, relationship issues, stress management, self-defeating thoughts or behaviors, etc. Should any student need interpersonal counseling, he or she is encouraged to immediately contact Student Affairs, at campus extension 7350 to schedule an appointment with Woodland’s counselor. This is a free service available to all students.

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 for 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 advises those students seeking admission into Rio Grande’s Holzer School of Nursing, and it is the central office for the advising and registration of College Credit Plus (CCP) students.

English and math assessments* are required, and these assessments determine the courses for which a student registers. Currently, for assessment, the University of Rio Grande/Rio Grande Community College uses Accuplacer for math placement and an “in-house” writing sample for writing/English placement. Students may use qualifying ACT or SAT scores instead of taking the English and math placement tests.

Individuals who would like to review their math skills prior to testing may visit http://www.accuplacerpracticetest.com/accuplacer-elementary-algebra-practice-test/ to practice for the Accuplacer math assessment test.

*Students transferring in English and/or math credits may not need to placement test. If you have any questions on whether or not a placement test is required, please call 740.245.7004.

The office 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 accessible at the office, and through registration with the online job board. Advisors are available to assist students and alumni with resume writing, (mock) interviewing, and other aspects of job preparation. The office annually hosts, in the spring and prior to Commencement, a career fair.

Students who plan to use the career services are asked to contact the office well in advance of their plans to use these services.

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

ACT (American College Testing)
ACCUPLACER (for course placement)
CLEP (College Level Examination Test)
GMAT (Graduate Admission Test)
COMIRA (certification exams and educational testing)
PEARSON VUE (certification exams)
Other test publications are available upon request.
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 accounts are created immediately after admission, 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, Gateway to Success Course training sessions and through online documentation.

Printed information is distributed to campus offices including the Jenkins Center, Campus Police and the Campus Computing & Networking Office in Moulton Hall.

StudentSpace
StudentSpace is the student portal used to register for classes, view 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 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 his/her 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 Boyd Hall. 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. www.gibill.va.gov

The Rio Grande Veterans Center is located in the basement of Boyd Hall and can be contacted at 740-245-7357.
**Organizations**

*Alpha Lambda Delta* is a National Honor Society designed to encourage superior scholastic achievement among students 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.

The *Council for Exceptional Children* was established to improve educational outcomes for individuals with exceptionalities.

*CRU* is a student chapter recognized by Campus Crusade for Christ International. The student-led movement seeks to introduce students to Christ, help members to grow in faith, and encourage a life in a manner consistent with belief in the God of the Bible.

*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 competing 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 opportunities 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 excellent. 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 URG/RGCC students but to community members and area high school students.

*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, as well as promoting 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 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 (AGC), an organization composed of representatives from each fraternity and sorority. There are ten social fraternities and sororities on campus. Membership is by invitation with each group sponsoring parties during a formal rush period to help acquaint students with the groups. Each group promotes scholarship, social activities, personal development, and service. The organizations are: Alpha Mu Beta, Delta Theta, Chi Omega Alpha, Lambda Omicron Psi, Alpha Chi Nu (Archon), Alpha Sigma Phi, Alpha Eta Omega, Tau Kappa Epsilon, Zeta Alpha Rho and Zeta Theta Chi. Rules concerning pledging can be obtained from the AGC Advisor.

Social Work Student Council – is open to students interested in the field of Social Work and organized on behalf of students interested in the Social Work program, community service and fellowship.

LGBTQIA – Lesbian, gay, bisexual, transgender, queer, intersex, and asexual student organization. This organization was formed to provide educational programming and events that are designed to foster campus and community wide understanding, tolerance and education about the LGBTQIA community.

Student Association for Spanish Studies – to further the interest and development of Spanish studies as a scholarly discipline at the University of Rio Grande/Rio Grande Community College.

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 to advocate on behalf of student veterans 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), Kentucky Intercollegiate Athletic Conference (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. Sometimes additional performances are scheduled in nearby cities.

The Grande Chorale is a select 12-16 voice vocal jazz/chamber choir that performs contemporary literature. All interested students are encouraged to audition the first week of classes in the fall semester. Grande Chorale sings at multiple events each year on and off campus. The group tours extensively throughout, and outside of, Ohio.
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.

Rock Ensemble is an instrumental and vocal group specializing in rock music from the classic groups of the sixties and seventies to today's emerging artists. It consists of guitars, bass, drums, keyboards, and vocalists and is open to all students. It performs in concert twice a year and at other venues 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.

ACADEMIC PROGRAMS, POLICIES, AND SERVICES

URG Office of Academic Affairs, Bob Evans Farms Hall, PO Box 500, Rio Grande, OH 45674
740.245.7215 office; 740.245.7154 fax; email: academicaffairs@rio.edu

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, regardless of 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 Policy 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 exceptions 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 Arts & Letters, School of Mathematics & Natural Sciences, and the Bunce School of Education. 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 is obtainable from each of these schools. Both baccalaureate and associate degrees exist, along with a wealth of minors and certificate programs. Please refer to each particular School’s section in this Catalog for the specific degrees and programs that abound.
School of Arts and Letters
General Fine Arts – BFA (2D, 3D, Visual Art, Graphic Design), AA (Art, Graphic Design), Minor (Art, Photography, Graphic Design)
Visual Arts Education: Multi-Age (see degree requirements listed under Education) – BS
Music – BA Comprehensive, AA, Minor
Music Business – BA Comprehensive
Music Education: Multi Age (see also degree requirements listed under Education) – BS
Behavioral and Social Sciences – BS (depending on concentrations)
English – BA, Major, Minor
Communication – BS Comprehensive, AA
History – BA, BS, AA, Minor
Political Science – AA, Minor

School of Mathematics and Natural Sciences
Biology – General Track BS, AS, Minor
Biology – Biomedical Track – BS
Biology – Ecology Track – BS
Chemistry – BS, AS, Minor
Environmental Science – BS Comprehensive, Minor
Mathematics – BS, AS, Minor
Wildlife Conservation – BS

Bunce School of Education
Licensure areas of: Middle Childhood (Science, Math, Language Arts, Social Studies), Adolescent to Young Adult (Social Studies, Language Arts, Math, Life Science, Physical Science),
Multi-Age (Physical Education, Music, Visual Arts, Health– BS
Early Childhood & Intervention Specialist (Age 3-Grade 3) Dual Licensure--BS
Early Childhood & Intervention Specialist (K-12) Dual Licensure--BS
Physical Education-- AA,
Pre-Kindergarten--AAS
Career-Technical Teaching – AAS
Health – Minor

College of Professional and Technical Studies

Holzer School of Nursing
RN-BSN Program – BS
Nursing Technology-AAS

School of Health and Behavioral Sciences
Diagnostic Medical Sonography – BS, AAS (General or Cardiovascular)
Applied Health Care Administration – 2 + 2 BTS
Office Technology (3 options): Administrative Office Assistant, Legal Office Assistant, or Medical Office Assistant – AAB
Medical Transcriptionist – Certificate
Information Processing – Certificate
Pharmacy Technician – Certificate
Radiologic Technology – AAS
Respiratory Therapy – AAS
Behavioral and Social Sciences – BS (depending on concentrations)
Social Studies: AYA Integrated (see requirements listed under Education) – BS
Social Studies: Middle Childhood Concentration (see degree requirements listed under Education) – BS
Psychology – BS, AA, Minor
Social Work – BSW
Social Services – AA
Sociology – AA, Minor
Sports and Exercise Studies- AS, BS

**Emerson E. Evans School of Business**
Business Management – BS, AAB, Minor
Accounting – Professional Certificate, Minor
Banking – Professional Certificate, Minor
Healthcare Administration – Professional Certificate, Minor
Information Technology – Professional Certificate, Minor
Marketing – Professional Certificate, Minor
Small Business Management – Certificate

**School of Technologies**
Industrial Technology-BSIT
Computer Science – BS, Minor
Industrial Automation and Maintenance - ATS
Information Technology: Information and Support Services – AAS
Information Technology: Network Systems – AAS
Information Technology: Programming and Software Development – AAS
Welding – ATS, Certificate

**Definitions**
- **Individualized Majors and Minors**: Unique degree programs for those students whose plans and needs differ from all established degree programs. 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:**

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>A.A.</td>
<td>Associate of Arts</td>
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<tr>
<td>A.S.</td>
<td>Associate of Science</td>
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<tr>
<td>A.A.S.</td>
<td>Associate of Applied Science</td>
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<tr>
<td>A.A.B.</td>
<td>Associate of Applied Business</td>
</tr>
<tr>
<td>A.T.S.</td>
<td>Associate of Technical Study</td>
</tr>
<tr>
<td>B.A.</td>
<td>Bachelor of Arts</td>
</tr>
<tr>
<td>B.S.</td>
<td>Bachelor of Science</td>
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<tr>
<td>B.S.I.T.</td>
<td>Bachelor of Science Degree in Industrial Technology (2+2 Program)</td>
</tr>
<tr>
<td>B.S.N.</td>
<td>Bachelor of Science in Nursing for Registered Nurses (R.N. – B.S.N. Program, 2+2 program)</td>
</tr>
<tr>
<td>B.S.W.</td>
<td>Bachelor of Social Work</td>
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<tr>
<td>B.F.A.</td>
<td>Bachelor of Fine Arts</td>
</tr>
<tr>
<td>B.T.S.</td>
<td>Bachelor of Technical Studies</td>
</tr>
<tr>
<td>M.B.A.</td>
<td>Master of Business Administration</td>
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<tr>
<td>M.Ed.</td>
<td>Master of Education</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Division</th>
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<tbody>
<tr>
<td>ACC</td>
<td>Accounting</td>
</tr>
<tr>
<td>AHC</td>
<td>Allied Health Careers</td>
</tr>
<tr>
<td>ATH</td>
<td>Anthropology</td>
</tr>
<tr>
<td>ART</td>
<td>Art</td>
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<tr>
<td>BIO</td>
<td>Biology</td>
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<tr>
<td>BM</td>
<td>Business Management</td>
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<tr>
<td>CHM</td>
<td>Chemistry</td>
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<tr>
<td>COM</td>
<td>Communication</td>
</tr>
<tr>
<td>CS</td>
<td>Computer Science</td>
</tr>
<tr>
<td>DMS</td>
<td>Diagnostic Medical Sonography</td>
</tr>
</tbody>
</table>
ECO Economics  MTH Mathematics
EDU Education: Licensure  MUS Music
ELE Electronics Technology  NSC Natural Science
EMS Emergency Medical Services (Paramedic Training)  NUR Nursing
ENG English  OT Office Technology
ESS English Support Services  PHR Philosophy and Religion
FIN Finance  PHT Pharmacy Technician
FPA Fine and Performing Arts  PHY Physics
HIS History  POL Political Science
HON Honors  PPT Power Plant Technology
HPE Health and Physical Education  PSY Psychology
HUM Humanities  RAD Radiologic Technology
IND Industrial Technology  RCP Respiratory Therapy
IT Information Technology  SOC Sociology
ISS Information Support Services  SPA Spanish
JRN Journalism  SSC Social Science
LA Liberal Arts  SWK Social Work
MFG Manufacturing Technology  TEC Technology
MKT Marketing  THR Theatre

NOTE: Associate degree candidates must complete a General Education Program and an area of concentration for the Associate of Arts or Associate of Science Degree or the prescribed program for an associate degree in a technical area (AAS, AAB, and ATS Degrees). Baccalaureate degree candidates 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) one approved teacher licensure major.

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 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 academic 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 suspension 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.

See the Student Handbook for the full policy.

Advising
Each entering student is assigned to an academic advisor who provides assistance in preparing semester class schedules appropriate to the student’s declared program of study. 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 Office of the Registrar. The completed form must then returned to the Office of the Registrar.

Students entering their planned year of graduation (with a minimum of 30 hours for Associate Programs, or with a minimum of 90 hours for Baccalaureate Programs) should seek an official degree audit from the Office of the Registrar 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 grade point average (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 Academic 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 grade point average. 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 10001 Gateway to 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 CollegiateRegistrars 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 Rio acknowledges 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 Amanda Ehman at 740/245-7443 for further information.

**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 Technology 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 credentials 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 Policy 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. (See Non-Attendance Policy)

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.

**Non-Attendance Policy**
Faculty will report non-attendance on the tenth day of the academic term. A student who has never attended “all of their registered courses” will result in being Administratively Withdrawn from the institution, providing the following conditions are met:
- If there has been no academic activity
- No other non-academic activities (e.g., no Bookstore purchases, not checked in the dorm, not eating any meals, and/or no parking permit)

If a student failed to attend a course, but attended one or more of their other courses, the student will be assigned a grade of NW for the course, and charges will remain. The student has the option of completing the course “providing they have
instructor approval,” or, withdrawing from it; however, financial aid will not cover the charges for that course. Faculty will report any student who has stopped attending by entering a FINAL grade of NF.

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 cannot be made up.

A 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 one other than the faculty member responsible for the course taught may assign or change a grade, unless they follow grievance policy.

Many courses are graded on an A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, NF 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 Registrar’s Office) with the faculty member and the faculty member signs and submits it to the Registrar’s Office. Any additional extension must be approved by the Provost. Special requests and appeals pertaining to incomplete grades may be made to the Academic Policy Committee.

No grade may be changed by a faculty member after it has been submitted to the Registrar’s Office, unless he or she can demonstrate a grading error. The faculty member must file a form, available from the Registrar’s Office, giving the basis for the error and assign the new grade. The Registrar’s 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 Registrar’s Office, must be completed by the student and returned, and will be on file in the Registrar’s 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 grade point averages (G.P.A.). The G.P.A. for each semester is computed on all other grades received during a semester.

The cumulative G.P.A. 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 (96-100) Excellent</td>
<td>4.00</td>
</tr>
<tr>
<td>A- (90-95)</td>
<td>3.70</td>
</tr>
<tr>
<td>B+ (87-89)</td>
<td>3.30</td>
</tr>
<tr>
<td>B (83-86) Good</td>
<td>3.00</td>
</tr>
<tr>
<td>B- (80-82)</td>
<td>2.70</td>
</tr>
<tr>
<td>C+ (77-79)</td>
<td>2.30</td>
</tr>
<tr>
<td>C (73-76) Average</td>
<td>2.00</td>
</tr>
<tr>
<td>C- (70-72)</td>
<td>1.70</td>
</tr>
<tr>
<td>D+ (67-69)</td>
<td>1.30</td>
</tr>
<tr>
<td>D (63-66) Poor (below average)</td>
<td>1.00</td>
</tr>
<tr>
<td>D- (60-62)</td>
<td>0.7</td>
</tr>
<tr>
<td>F (0-59) Failing (far below average)</td>
<td>0</td>
</tr>
<tr>
<td>S Satisfactory; credit</td>
<td>0</td>
</tr>
<tr>
<td>U Unsatisfactory; no credit</td>
<td>0</td>
</tr>
<tr>
<td>I Incomplete</td>
<td>0</td>
</tr>
<tr>
<td>K Credit by Proficiency Exam, Life Experience, External Testing, Transfer, Vocational Articulation, Advanced Standing</td>
<td>0</td>
</tr>
<tr>
<td>ADF Academic Dishonesty-Failed</td>
<td>0</td>
</tr>
<tr>
<td>AU Audit</td>
<td>0</td>
</tr>
<tr>
<td>NG No grade (assigned by Registrar)</td>
<td>0</td>
</tr>
<tr>
<td>W Withdrawal</td>
<td>0</td>
</tr>
<tr>
<td>NF Student stopped attending</td>
<td>0</td>
</tr>
<tr>
<td>NW Failed to attend a class but attended others</td>
<td>0</td>
</tr>
</tbody>
</table>

Academic Probation and Suspension
Academic probation is determined by comparing the student’s cumulative grade point average with the total cumulative hours. Satisfactory progress is maintained by meeting or exceeding the levels indicated in the following table:

<table>
<thead>
<tr>
<th>Cum. Hrs.</th>
<th>1-15</th>
<th>16-31</th>
<th>32-52</th>
<th>53-Graduation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cum. G.P.A.</td>
<td>1.50</td>
<td>1.80</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 grade point average indicated in the standards above. A student will be continued on probation by maintaining a grade point average of at least 2.25; the student will continue on probation until the cumulative grade point average 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 G.P.A. 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 G.P.A. 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 for 100 or 200 level courses 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 or they have enrolled in 300 or 400 level courses.

**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 grade point average 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 grade point average 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 grade point average for all work taken during the previous term.

**Graduation Requirements**
Minimum credit hour requirements are 60 hours for an associate degree, 120 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 73 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 Policy 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 cumulative grade point average of 2.00 for all courses, for each major, and for each minor. Some programs or parts of programs may require higher grade point averages 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 Policy 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 master’s 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. Students may use the same credit from their General Education courses toward both degrees.

C. 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 cannot 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.

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

E. 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
The University of Rio Grande and Rio Grande Community College offer individuals the opportunity to take specific courses in an audit format. Courses taken in audit format are not for credit. The charge for RGCC students to audit a course will be the same as the amount of tuition assessed to the course plus course fees. The cost for URG students to audit a course is $60.00 per credit hour. Courses available for audit are limited and registration is on a seat available basis. You may obtain a list of courses exempt from audit at the Business Office.

Commencement
Students must apply for graduation with the Office of the Registrar for graduation by May 31 for fall and October 31 for spring and summer to ensure 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.

Schedule Changes (Drop/Add/Withdrawal)
Students may add classes through the first academic week of any fall or spring academic term, and through the first two days of any summer term. Students who drop any class through the first week of any fall or spring academic term (or the first two days of any summer term) will not be charged for the tuition of that class. Once classes have begun a drop or add fee will be assessed. Any class dropped within the first week will not appear on student’s transcript. Classes dropped after the first week will appear on students’ transcripts with a grade of W assigned. Last day to drop a class or withdraw from the university is as follows:

- 16 Week Class – through the end of 11th week
- 10 Week Class – through the end of 8th week
- 8 Week Class – through the 6th week
- 5 Week Class – through the 3rd week

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 Registrar’s Office.

Schedule changes may not be completed by a faculty member, by phone, or by proxy.

Withdrawal Policy
To withdraw from the University or Community College the student must obtain a withdrawal form from the Registrar’s
Office and complete the withdrawal process. The withdrawal process must be completed by every student wishing to terminate his/her total class schedule. Withdrawals may not be accomplished by proxy or telephone.

A student may withdraw from the University or Community College without prejudice through the last class day of the ninth week of the fall or spring semesters, or the last class day of the third calendar week of any summer session.

Withdrawing from the University or Community College after the eleventh week will be recorded on the permanent academic record as withdrawal in each course of the student’s schedule. The last day to officially withdraw from classes will be the last day of the eleventh (11th) week of the semester and the third (3rd) week of any summer term. Students enrolled in eight week courses may withdraw through the last class day of the sixth (6th) week of the term.

**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 Business 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/Vice President for Academic Affairs 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.

**Transcript Requests**

Unofficial transcripts are available at no charge; however, a completed request form must be submitted to the Office of the Registrar. The request forms are available at the Reardon One-Stop located in Florence Evans Hall. Students may also access an unofficial transcript through Student Space.

Official transcript requests are to be made through [www.iwantmytranscript.com](http://www.iwantmytranscript.com). Any questions regarding transcript request should be directed to the Office of the Registrar via email at records@rio.edu or via phone - 740-245-7369.

**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 for any student enrolled at the University of Rio Grande and Rio Grande Community College.

Located in the James A. Rhodes Student Center, the Jenkins Center for Student Success houses the Math Lab and the Jenkins Center Open Lab.

The Center provides academic support services to students at no additional charge. These services include: writing assistance, tutoring, Microsoft Office software, computerized tutorial programs, Internet accessibility, printing and other resources.

The Jenkins Center’s tutoring program is nationally certified by the College Reading and Learning Association at both Level I/Regular and Level II/Advanced.

Jeanette Albiez Davis Library

Jeanette Albiez Davis Library supports Rio Grande’s mission and vision by providing access to high-quality resources and services designed to help meet the information needs of both the campus and larger community.

Davis Library has holdings in excess of 480,000 items, including approximately 45,000 books, 400,000 units of microforms, and over 665 audio-visual materials. Davis Library also subscribes to over 100 current periodicals and maintains a collection of approximately 25,000 government documents in its role as a Selective Library for the United States Federal Depository Library Program (FDLP—www.fdlp.gov).

During the regular academic year, Davis Library is open seven days a week for a total of 72 hours. The Library posts both its regular and special hours on its Website, which can be found through the Rio Grande Website, www.rio.edu.

Through its home page on the World Wide Web, www.rio.edu/library, Davis Library gives students and members of academic community at the University of Rio Grande and Rio Grande Community College access to a growing local collection and up-to-date electronic information resources, along with online help to meet research and study needs. Responses to questions emailed to refdesk@rio.edu are answered within 24-hours or less.

Key features of the Davis Library Website include 1) the Library’s local online public access catalog, RioCat, alpha.rio.edu, which provides indexing to its entire collection; and 2) a series of research guides known as LibGuides, libguides.rio.edu, which are designed by the Library’s Reference Staff to encourage further exploration of select topics by outlining resources relevant to their study.

Membership in OhioLINK, the Ohio Library and Information Network and Ohio’s Academic Library Consortium, www.ohiolink.edu, also offers Rio Grande students, faculty and staff remote access to book collections across the State, as well as, 24/7 access to a wealth of research databases and thousands of electronic journals and eBooks.

Through OhioLINK, Davis Library users can request and borrow books from other member libraries and receive them within a few days. They may also search hundreds of online resources to find full-text journal articles that may be printed, emailed, or saved directly to a workstation, mobile device, or flash drive. By presenting their valid Rio Grande Identification (ID) card, students, faculty and staff can visit other OhioLINK libraries throughout the State and utilize their resources in much the same way they do Davis Library.

OhioLINK’s mission is to create “a competitive advantage for Ohio's higher education community by cooperatively and cost-effectively acquiring, providing access to, and preserving an expanding array of print and digital scholarly resources in order to advance teaching, learning, research, and the growth of Ohio’s knowledge-based economy.” Links to OhioLINK and its various resources are offered throughout the Davis Library Website.

As a charter member of the Online Computer Library Center (OCLC), and OHIONET, a statewide network of OCLC participating libraries, Davis Library can provide Rio Grande students, faculty, and staff with access to virtually anything they may wish to use for their research through its traditional interlibrary loan (ILL) service using online request forms,
ILL gives Davis Library users access to libraries collections all over the world.

Davis Library’s physical space offers an inviting and user-friendly environment for both learning and social activities. The mix of traditional library resources and services with readily available computer and information technology helps promote 21st Century skill development. Librarians and other staff members are always available to answer questions and guide the research process. The building’s three-levels provides a variety of places for collaboration and contemplation. In addition to quiet study spaces for individuals, Davis Library also provides group study rooms and other meeting spaces for both formal and informal learning needs.

The Friends of the Davis Library, www.rio.edu/library/Friends-of-the-Library.cfm, is a volunteer organization open to anyone with an interest in books or libraries. The group helps promote 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 encourages 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 help enhance the Davis Library’s commitment to outreach and public service.

Finally, Davis Library also maintains a Facebook page, www.facebook.com/jadavislibrary, in conjunction with its home page as another way to engage Library users and promote the Library’s various programs, services, and resources.

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

Dr. Heather L. Duda, Director
Wood Hall 244
P: 740-245-7183 E: hduda@rio.edu

Mission Statement
The Rio Grande Honors Program engages gifted students through a specialized curriculum, Honors seminars, and a capstone project that challenges all perceptions to achieve maximum potential. The academic excellence embodied by the Rio Grande faculty combined with the core value system of the surrounding Appalachian culture fosters socially responsible, culturally diverse leaders dedicated to confronting global change.

The Honors Program is not a degree-granting program.
It is, however, an academic program that can be taken in conjunction with a student’s major curriculum. Students who successfully complete the Honors curriculum in addition to their program curriculum will graduate with the designation of “Honors” on their transcript. The complete Honors Program is a baccalaureate program, but eligible associate degree students are welcome to participate in the seminars and take the Honors general education curriculum as their academic program allows.

Learning Outcomes
Upon completion of the Rio Grande Honors Program, students will:
- Demonstrate a strong knowledge of written communication skills.
• Develop effective and persuasive oral communication skills.
• Analyze and synthesize information from a diverse range of sources.
• Solve problems through the scientific method using proper research skills.
• Creatively express themselves through original work.
• Think critically and approach issues through a logical manner.

**Honors Program General Education Requirements**

**Communication Skills**
ENG 12003 Honors Composition ........................................... 3
COM 10103 Introduction to Communication .......................... 3
Total Communication Hours ............................................... 6

**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

**Liberal Arts**
LA 10001 Gateway to Success ................................ ........... 1
Total Liberal Arts Hours .................................................... 1

**Arts/Humanities Required Courses**
HUM 10103 Honors Seminar in the Humanities ..................... 3
Choose Practical Course from the List ................................. 3-4
Total Arts/Humanities Hours .............................................. 6-7

**Social Science Required Courses**
SOC 25103 Social Problems ................................................. 3
SOC 20103 Honors Social Science Service Learning ........... 3
Total Social Science Hours ................................................. 6

**Math and Natural Science Required Courses**
Math (Select One)
MTH 14505 Pre-calculus ................................................... 5
MTH 21404 Intro to Probability and Statistics .................... 4
MTH 15105 Calculus I ....................................................... 4
Total Math Hours ............................................................. 4-5
NSC 22304 Environmental Science ..................................... 4
Total Natural Science Hours ............................................... 4
Total General Ed Required Hours ........................................ 30-31

* Students must take at least 36 general education hours to graduate.
** Students must take any general education courses required for their major in addition to the Honors general education sequence.
*** The only Honors general education courses that are included in the Ohio Transfer Module are MTH 14505: Pre-calculus and MTH 15105: Calculus I.
**** A student’s required computer skills should be addressed throughout the student’s curriculum.

**Additional Honors Program Requirements**
• Students must successfully complete four semesters of HON 20101: Honors Seminar.
• Students must successfully complete HON 40101: Senior Honors Seminar I and HON 40201: Senior Honors Seminar II.

**Program Acceptance Requirements**
First-semester Rio students seeking admission into the Honors Program must meet two of the following criteria:
• Upper 10 percent of high school graduating class,
• 3.5 high school GPA, and
• ACT composite score of 25.

Currently enrolled Rio students seeking admission must meet the following criteria:
• 3.25 minimum GPA after completing at least 8 credit hours

Honors students can apply up to two non-Honors classes – no more than four credits per class – to their Honors general education curriculum. These courses can be from Rio Grande or transferred in from a different institution. (Transfer credits must be approved by Rio Grande’s Registrar’s Office before they can be applied to a student’s curriculum.)

Honors students must maintain a GPA of at least 3.25 at all times. Students whose GPA falls below a 3.25 are automatically placed on probation but have until the following semester, not including Summer term, to raise their GPA to at least a 3.25.

COLLEGE READINESS PROGRAM
Students who do not placement test directly into college freshmen-level English and mathematics courses are required to participate in College Readiness coursework. This coursework is designed to academically prepare and support students who have demonstrated the need for additional basic skills in order to successfully engage in college level coursework. College Readiness coursework needs to be taken within the first term.

Mission Statement
The College Readiness program at the University of Rio Grande and Rio Grande Community College is committed to helping students achieve their academic aspirations by providing them with the supports necessary to become successful learners.

Goal Statements
The College Readiness program serves students by:
• Providing a variety of learning opportunities and services to meet the diverse educational needs of URG/RGCC students.
• Implementing, evaluating, and improving new initial assessment and placement procedures.
• Advising students in developing an individualized plan to persist in college.
• Assisting student in developing academic skills so they may be successful in freshman-level academic coursework in a minimal amount of time.
• Inspiring students to love learning and actively engaging them in the learning process.
• Fostering self-confidence and motivation in students.
• Engaging students in the use of technology to enhance learning.
• Challenging students to become independent learners and critical thinkers.

MADOG CENTER FOR WELSH STUDIES

Welsh Study Abroad Program
The Madog Center for Welsh Studies offers students the opportunity to “foster understanding and appreciation for Welsh heritage and contemporary Welsh culture” through a variety of activities throughout the year. Our focus is an established student exchange program with University of Wales, Trinity Saint David, in Carmarthen, South Wales, where students who qualify can study abroad for the fall semester of their sophomore or junior year and earn credits towards their degree. Students take classes in their major area. Fine Arts classes are taught at Swansea campus, Tuition is paid through the University of Rio Grande and room & board and activity fees are paid at Trinity. Language is not a barrier in Wales; it is a bilingual country , but all classes are in the medium of English.

The Madog Faculty Fellowship Program offers a stipend to one full-time faculty member each year to original research in the area of Welsh or Welsh-American culture or history.

The Center also schedules other musical events and lectures on and off campus throughout the year. Contact the Madog Center for Welsh Studies, located on the first floor of the Elizabeth Davis House, 740-245-7186, or email welsh@rio.edu. More information is on the website at www.rio.edu/madog or on Facebook.

CHINA EXCHANGE PROGRAM
Rio Grande students have the opportunity to study abroad at one of three destinations in mainland China. Each university in
China is dedicated to meet students’ educational, cultural, and social needs, by offering intensive coursework that also has a cultural excursion element. Tuition is paid to URG, and room/board fees are paid to the visiting institution.

The International Programs Office, located on the second floor of the Davis House, works with students to minimize costs and maximize international learning opportunities. For more information, contact international@rio.edu or 740-245-7115.

**GENERAL EDUCATION PROGRAM**
URG Office of Academic Affairs, Bob Evans Farms Hall, PO Box 500, Rio Grande, OH 45674
740.245.7215 office; 740.245.7154 fax; email: academicaffairs@rio.edu

**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 understanding of ethical reasoning by constructing arguments on issues of importance of society (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 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 Gateway to Success (LA 10001), 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.
**General Education Required Courses:**

**Communication Skills**
COM 11103 Fundamentals of Speech .......................... 3
Communication* ......................................... 3
ENG 11103 Composition I .................................. 3
ENG 11203 Composition II ................................. 3
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 pre-requisite course deemed appropriate. The credits in this course 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:
ART 10303 Art Appreciation ............................... 3
MUS 10403 Music Appreciation ............................ 3
FPA 10503 Fine Arts ...................................... 3

**Group II.**
Select at least one course from:
ENG 24103 Literary Imagination ............................ 3
HUM 20103 The Humanities ................................ 3
PHR 21103 Philosophical Inquiry ........................... 3

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

**Social Science required courses**

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

**Group II.**
Select at least one course from:
ECO 11103 Contemporary Economics ........................ 3
PSY 11103 General Psychology ............................. 3
SOC 11103 Introduction to Sociology ..................... 3
Total Social Science hours ................................ 6

**Liberal Arts (required of all entering freshmen)**
LA 10001 Gateway to Success ............................... 1
Total Liberal Art ............................................ 1

**Mathematics and Natural Science required courses**

**Group I. Mathematics:**
Select at least one course from:
MTH 14505 Pre-calculus ................................... 4-5
MTH 21404 Intro Probability and Statistics* .............. 4-5

**Group II. Biology:**
Select at least one course from:
BIO 11004 Plants and People* ......................... 4
BIO 11404 Principles of Biology ........................ 4

**Group III. Natural Science:**
Select at least one course from:
CHM 10404 Principles of Chemistry ..................... 4
NSC 22304 Environmental Science ....................... 4
PHY 10404 Principles of Physics ........................ 4
Total Mathematics and Natural Science ................ 12-13
Total General Education required hours ................ 39-40
*(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.

**TRANSFER MODULE**

URG Office of Academic Affairs, Bob Evans Farms Hall, PO Box 500, Rio Grande, OH 45674
740.245.7215 office; 740.245.7154 fax

**Transfer Module - State Policy Institutional Transfer**
The Ohio Department of Higher Education in 1990, following the directive of the 118th 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. Additional legislation from the 125th Ohio General Assembly also initiated the development of a statewide system for
articulation agreements amount state institutions of higher education for transfer students pursuing teacher education programs.

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 Department of Higher Education’s Articulation and Transfer Policy established the Transfer Module, which is a specific subset of a public higher education institution’s general education curriculum in Associate of Arts (AA), Associate of Science (AS), and baccalaureate degree programs. Students in applied associate degree programs may complete some individual Ohio Transfer Module courses within their degree program or continue beyond the degree program to complete the entire Ohio Transfer Module.

The Ohio Transfer Module contains 36-40 semester hours of course credit in English composition, (minimum of 3 semester hours) mathematics, statistics and logic (minimum of 3 semester hours); arts and humanities (minimum of 6 semester hours); social and behavioral sciences, (minimum of 6 semester hours); and natural sciences (minimum of 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 Ohio Transfer Module. Courses for the Ohio 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 Ohio Transfer Module.

Ohio 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 Ohio 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 Ohio 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 in planning for specific majors and making course selections that will ensure comparable, compatible, and equivalent learning experiences across the Ohio’s public higher-education system. A number of area-specific TAG pathways in meta-majors the arts, humanities, business, communication, education, health, mathematics, sciences, engineering, engineering technologies, social sciences, and foreign languages 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.

Career-Technical Assurance Guides
Collaboration among the Ohio Department of Higher Education, the Ohio Department of Education, and other key stakeholders led to the development of policies and procedures to create statewide career-technical discipline specific articulation agreements and further ensure that students completing coursework at an adult or secondary career-technical institution can articulate and transfer agreed-upon technical courses/programs to any Ohio public institution of higher
education and among Ohio public institutions of higher education “without unnecessary duplication or institutional barriers.”

Career-Technical Assurance Guides (CTAGs) are statewide articulation agreements that guarantee the recognition of learning which occurs at public adult and secondary career-technical institutions and have the opportunity for the award of college credit toward technical courses/programs at any public higher education institution. CTAGs serve as advising tools, identifying the statewide content guarantee and describing other conditions or obligations (e.g., program accreditation or industry credential) associated with the guarantee.

**Military Transfer Assurance Guides**

In response to the legislative requirement (Ohio Revised Code 3333.164) to create a military articulation and transfer assurance guide for college-level learning that took place through military training, experience, and coursework, college credit will be granted to student with military training, experience, and/or coursework that is recognized by the American Council on Education (ACE) or a regionally accredited military institution such as Community College of the Air Force.

In order to streamline the awarding, transferability, and applicability of college credit, service members and veterans are guaranteed to earn certain types of credit(s) or course(s) as specified in the Military Transfer Assurance Guides (MTAGs), which are based on the endorsed baseline standards and procedures by the Chancellor. Equivalent course(s), credits for courses, or block of credit is to be awarded and applied towards general education and/or major course requirements at the receiving institution in accordance with the MTAG guarantee. There is some training, experience, and coursework that the receiving institution may be able to award college credit only toward general or free electives.

In addition, public institutions of higher education shall ensure that appropriate equivalent credit is awarded for military training, experience, and coursework that meet the baseline standards and procedures according to the Ohio Revised Code 3333.164. This requirement goes beyond credit/course awarded based on the MTAG alignment process.

**Apprenticeship Pathway Programs**

The Apprenticeship Pathways initiative advocates for individuals completing apprenticeships by incorporating their learning into academic credit, thereby saving them time and money and encouraging them to advance their academic credentials to contribute to a strong, educated workforce.

Ohio apprenticeship programs partner with public two-year institutions to provide technology-specific statewide articulation agreements that recognize non-traditional prior learning. College credit is awarded toward a technical associate degree. Each agreement simplifies student advising by outlining how apprenticeship training in a certain pathway applies to an applied associate degree and lists remaining courses required to complete the degree. The application of the credit toward a technical associate degree in these agreements is guaranteed at the participating receiving institutions.

**Advanced Placement Credit Award**

The State of Ohio, working with public institutions of higher education, 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.

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.
One-Year Option Credit Award

The One-Year Option builds upon Ohio’s articulation and transfer system to help more adults accelerate their preparation for work by earning a technical associate degree. Consistent with the philosophy of the Career-Technical Assurance Guides (CTAGs), the One-Year Option guarantees that college credit will be awarded for college-level learning that occurs through adult programs at public career-technical institutions.

Adults who complete a career-technical education program of study consisting of a minimum of 900 clock-hours and achieve an industry-recognized credential approved by the Chancellor shall receive thirty (3) semester hours of technical course credit toward a standardized Associate of Technical Study Degree (ATS) upon matriculation at a public institution of higher education that confers such a degree. The 30 semester hours will be awarded as a block of credit rather than credit for specific courses. Proportional credit is to be awarded toward the ATS degree for adults who complete a program of study between 600 and 899 clock-hours and achieved an industry-recognized credential approved by the Chancellor.

The credit earned through the One-Year Option will be applied to ATS degrees bearing the following standardized degree titles:

1. Associate of Technical Study in Building and Industrial Technology
2. Associate of Technical Study in Business Technology
3. Associate of Technical Study in Health and Allied Health Technology
4. Associate of Technical Study in Information Technology
5. Associate of Technical Study in Services Technology

Conditions for Transfer Admission

1. Graduates with associate degrees from Ohio’s public institutions of higher education and a completed, approved Ohio Transfer Module shall be admitted to a public institution of higher education in Ohio, provided their cumulative grade-point average is at least 2.0 for all previous college-level courses. Further, these students shall have admission priority over graduates with an out-of-state associate degree and other transfer students with transferable and/or articulated college credit.

2. Associate degrees holders who have not completed the Ohio Transfer Module from an Ohio public institution of higher education will be eligible for preferential consideration for admission as transfer students as long as the institution’s admission criteria, such as the minimum academic standards, space availability, adherence to deadlines, and payment of fees, are fairly and equally applied to all undergraduate students.

3. In order to encourage completion of the baccalaureate degree, students who are not enrolled in or who have not earned an Associate of Arts (AA) or Associate of Science (AS) degree program but have earned 60 semester/90 quarter hours or more of credit toward a baccalaureate degree with a grade point average of at least a 2.0 for all previous college-level courses will be eligible for preferential consideration for admission as transfer students as long as the institution’s admission criteria, such as the minimum academic standards, space availability, adherence to deadlines, and payment of fees, are fairly and equally applied to all undergraduate students.

4. Students who have not earned an associate degree or who have not earned 60 semester hours/90 quarter hours of credit with a grade point average of at least a 2.0 for all previous college-level courses will be 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.

The admission of transfer students by an institution, however, does not guarantee admission to any majors, minors, or fields of concentration at the institution. Some programs have additional academic and non-academic requirements beyond those for general admission to the institution (e.g., background check, a grade-point average higher than a 2.0, or a grade-point average higher than the average required for admission to the 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.

Responsibilities of Students

To maximize transfer credit application, prospective transfer students must take responsibility for planning their course of study to meet both the academic and non-academic requirements of the institution to which they desire to articulate or transfer as early as possible. The student is responsible to investigate and use the information, advising, and other available resources to develop such a plan. Students should actively seek program, degree, and transfer information; meet with an advisor from both the current and receiving institutions to assist them in preparing a course of study that meets the academic requirements for the program/degree to which they
plan to transfer; use the various electronic course/program transfer and applicability database systems, including Ohio Transfer to Degree Guarantee web resources; and select courses/programs at their current institution that satisfy requirements at the receiving institution to maximize the application of transfer credit. 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 foreign language requirements or any special course requirements that’s can be met during the freshman or sophomore year. This will enable students to plan and pursue a course of study that will better articulate with the receiving institution’s major.

**Appeals Process**
Following the evaluation of a student transcript from another institution, the receiving institution shall provide the student with a Statement of Transfer and Articulated Credit Applicability (Degree Audit Report). A student disagreeing with the application of transfer and/or articulated credit by the receiving institution must file his/her appeal in writing within ninety (90) days of receipt of the Statement of Transfer and Articulated Credit Applicability The institution shall respond to the appeal within thirty (30) days of the receipt of the appeal at each appeal level.

**Student Complaints Following Transfer Appeals at the Receiving Institution**
After a student exhausts the appeals process at the receiving institution and choose to pursue further actions, the Ohio Department of Higher Education (ODHE) responds to formal written complaints related to Ohio Articulation and Transfer Policy against public, independent non-profit, and proprietary institutions of higher education in Ohio. While the ODHE has limited authority over college and university and cannot offer legal advice or initiate civil court cases, staff will review written complaints submitted through its established process and work with student complainants and institutions.
ART

School of Arts & Letters
College of Arts & Sciences
Berry Fine and Performing Arts Center
740.245.7364 office; 740.245.7101 fax finearts@rio.edu

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
Upon completion of the Bachelor of Fine Arts, students will be 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)
♦ Associate of Art in Visual Art
♦ Associate of Art in Graphic Design
♦ 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.............................................................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
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 Foundations hours.........................15

Art History
ART 15404 Western Art History 1.....................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
ART 28604 Painting I ......................................4
ART 21504 Printmaking I ...................................4
ART 48501 Senior Exhibit .................................1
Total Studio Core hours ...................................... 25

**Studio Concentration**
Complete 24 hours from the following courses:
ART 20204 Vector Graphics .........................4
ART 20304 Web Graphics .............................4
ART 34504 Sculpture II .................................4
ART 44504 Sculpture III .................................4
ART 33504 Ceramics II .................................4
ART 43504 Ceramics III .................................4
ART 38604 Painting II .................................4
ART 48604 Painting III .................................4
ART 36604 Darkroom Photography II ............4
ART 46604 Darkroom Photography III ............4
ART 31504 Printmaking II .............................4
ART 41504 Printmaking III .............................4
ART 48801-4 Selected Topics (may repeat) .......1-4
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 – 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 ........................................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 10503 Three-Dimensional Design ...........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 or
ART 26604 Darkroom Photography I
Total one course, four credit hours ..............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 24 hours from the following courses.
ART 20204 Vector Graphics .........................4
ART 20304 Web Graphics .............................4
ART 38604 Painting II .....................................4
ART 48604 Painting III ....................................4
ART 36604 Darkroom Photography II ............4
ART 46604 Darkroom Photography III ............4
ART 31504 Printmaking II .............................4
ART 41504 Printmaking III .............................4
ART 48801-4 Selected Topics (may repeat) .......1-4
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 ........................................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 10503 Three-Dimensional Design ...........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 or
   ART 26604 Darkroom Photography I
Total one course, four credit hours ......................... 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 24 hours from the following courses.
ART 34504 Sculpture II ....................................... 4
ART 44504 Sculpture III .................................... 4
ART 33504 Ceramics II ..................................... 4
ART 43504 Ceramics III .................................... 4
ART 48801-4 Selected Topics (may repeat) ............. 1-4
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 – 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 .................................................. 39
BFA students are not required to complete a Group I Humanities course, as ART 15404 Western Art History I 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 or
   ART 26604 Darkroom Photography I
Total one course, four credit hours ......................... 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 Fine Arts in Visual Art – Pre-Art Therapy Concentration (1790)
The Pre-Art Therapy Concentration is designed for students who intend to continue their education at the Master’s level in Art therapy or to combine their art studies with a minor in Psychology.

General Education must include:
PSY 11103 General Psychology
PSY 21503 Statistics for the Behavioral Sciences
BIO 11404 Principles of Biology

Total General Education hours .......................... 39
BFA students are not required to complete a Group I Humanities course, as ART 15404 Western Art History I will substitute.

Major Area required courses
Studio Foundations
ART 10403 Two-Dimensional Design .................. 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 Phil ........... 3
ART 26904 Digital Photography
ART 26604 Darkroom Photography I
Total one course, four credit hours ......................... 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
Studio Core
ART 23504 Ceramics I ............................... 4
ART 24504 Sculpture I ............................... 4
Select one from the following two courses
   ART 26904 Digital Photography
   ART 26604 Darkroom Photography
Total one course, four credit hours ............. 4
ART 28604 Painting I ............................... 4
ART 21504 Printmaking I .............................. 4
ART 38504 Drawing II ................................. 4
ART 48501 Senior Exhibit ............................. 1
Total Studio Core hours .......................... 25

Studio Concentration
Complete 16 hours of 300/400 level ART courses .......... 16

Psychology Minor Required Courses
PSY 22804 Memory and Cognition
PSY 26204 Research Methods
PSY 33203 Social Psychology
PSY 42203 Counselling Skills and Theoretical Foundations
PSY 47103 Abnormal Psychology ..................... 17
Total major area hours ................................ 77
Personal elective hours .................................. 9
Total hours required for degree ...................... 125

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

Associate of Arts - Visual Art (1721)
General Education must include: ........................ 39
AA students are not required to complete a Group I
Humanities course, as ART 15404 Western Art History 1 will
substitute.

Major Area required courses
ART 10403 Two Dimensional Design ............... 3
ART 12403 Drawing I .................................. 3
ART 12301 Art Portfolio ................................ 1
Select one from the following two courses
   ART 15404 Western Art History I
   ART 25404 Western Art History II
Total one course, four credit hours ................. 4
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 must include: .................... 39
AA students are not required to complete a Group I
Humanities course, as ART 15404 Western Art History 1 will
substitute.

Major Area required courses
ART 10403 Two Dimensional Design ............... 3
ART 12403 Drawing I .................................. 3
ART 12301 Art Portfolio ................................ 1
Select one from the following two courses
   ART 15404 Western Art History I
   ART 25404 Western Art History II
Total one course, four credit hours ................. 4
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

Bachelor of Arts or Science – Minor in
Photography (1747)
General Education must include:
   ART 10303 Art Appreciation ..................... 3
Total General Education hours ..................... 42 - 45
Minor Area required courses ......................... 15
Note: 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
Graphic Design (1781)
General Education must include:
   ART 10303 Art Appreciation ..................... 3
Total General Education hours ..................... 42-45
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 .................................... 16
Major and elective hours .................................. 63-69
Total required hours for degree .................. 126

BEHAVIORAL AND SOCIAL SCIENCE

School of Health & Behavioral Sciences
College of Professional & Technical Studies
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

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 must include:
ATH 12103 Anthropology .......................... 3
MTH 21404 Introductory Probability and Statistics.. 4
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
COM 41103 History of American Public Address ... 3
COM 42103 Communication Law ............... 3
COM 43203 Organizational Communication ....... 3
Total Communication hours ........................ 15

Area B – History
HIS 43703 History and Historians Seminar ....... 3
Select one from the following two courses:
HIS 41803 Topical Studies in History: Europe or
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 42403 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 two courses, three credit hours each ........... 6
Total History hours ........................................ 15

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 21103 Human Growth & Development .......... 3
PSY 22203 Counseling Skills/Theoretical Found.... 3
PSY 22803 Cognitive Psychology ........................ 3
PSY 33203 Social Psychology ............................. 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

BIOLOGY

School of Mathematics & Natural Sciences
College of Arts and Sciences
Kidd Math/Science Center
740.245.7397 office; 740.245.7172 fax

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 Track
   —General Biology Track
♦ Bachelor of Science – Adolescent to Young Adult Like
Science (see degree requirements 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
General Education must include:
BIO 12104 Biology I............................................. 4
CHM 15005 General Chemistry I .......................... 5
MTH 21404 Introductory Probability and Statistics .... 4
Total General Education hours ............................ 40

Biomedical Track (2350):
Major Area required hours .................................... 60-62
BIO 12204 Biology II ......................................... 4
BIO 20704 Ecology .............................................. 4
BIO 21404 Human Anatomy and Physiology I .... 4
BIO 30304 Microbiology ....................................... 4
BIO 36404 Genetics ............................................. 4
BIO 40303 Evolution ............................................ 3
BIO 47003 Senior Research ................................... 3
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 17505 General Physics I with Algebra ............ 5
PHY 18505 General Physics II with Algebra ........... 5
Select one:
BIO 37303 Cell and Molecular Biology .................... 3
BIO 34403 Introduction to Biochemistry ................. 3
Select one:
BIO 22404 Human Anatomy & Physiology II ......... 4
BIO 37504 Comparative Vertebrate Anatomy ........... 4
Select one:
BIO 43404 Parasitology ........................................... 4
BIO 49303 Pathophysiology ....................................... 4
BIO 38402 Immunology ............................................. 2
BIO 32603 Epidemiology ........................................... 3
BIO 38503 Environmental Toxicology ............................. 3

Personal elective hours ........................................ 23-25
Total required hours for degree ............................... 125

**Ecology Track (2370):**

Major area required hours ..................................... 55-60
BIO 12204 Biology II ............................................. 4
BIO 20704 Ecology .................................................. 4
BIO 30304 Microbiology .......................................... 4
BIO 36404 Genetics .................................................. 4
BIO 40303 Evolution ................................................ 3
BIO 47003 Senior Research ....................................... 3
CHM 15005 General Chemistry II ............................... 5
CHM 26202 Organic Chemistry Laboratory I .................. 2
CHM 26303 Organic Chemistry Theory I ....................... 3
NSC 22304 Environmental Science ............................... 4

**PHY 10404 Principles of Physics OR**
PHY 17505 General Physics I with Algebra ................. 4-5
BIO 30000-40000 Electives ...................................... 3-4

Select one:
BIO 36303 Local Flora ............................................ 3
BIO 36804 Advanced Plant Biology .............................. 4

Select one:
BIO 32303 Mammalogy .......................................... 3
BIO 33404 Invertebrate Zoology ................................. 4
BIO 37504 Comparative Vertebrate Anatomy .................. 4

Select one:
BIO 35304 Field Biology and Methodology .................... 4
BIO 45303 Conservation Biology ................................ 3
BIO 41303 Limnology .............................................. 3

Personal elective hours ........................................ 23-30
Total required hours for degree ............................... 125

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

General Education must include:
BIO 12104 Biology 1 ............................................... 4
MTH 21404 Intro to Probability and Statistics ............ 4

Total General Education hours ................................. 40

Minor Area required courses:
BIO 12204 Biology 2 ............................................... 4
BIO 20704 Ecology .................................................. 4
BIO 21404 Human Anatomy and Physiology OR
NSC 22304 Environmental Science ............................. 4
BIO 30304 Microbiology .......................................... 4
BIO 36404 Genetics .................................................. 4

Total minor area hours ........................................... 20
Major and elective hours ....................................... 68
Total required hours for degree ............................... 125

**Associate of Science Degree – Concentration in Biology (2321)**

General Education must include:
BIO 12104 Biology 1 ............................................... 4
MTH 21404 Intro to Probability and Statistics ............ 4

Major Area required courses:
BIO 12204 Biology 2 ............................................... 4
BIO 20704 Ecology .................................................. 4
BIO 21404 Human Anatomy and Physiology OR
NSC 22304 Environmental Science ............................. 4
CHM 15005 General Chemistry I ............................... 5
CHM 15505 General Chemistry II ............................... 5

Total major area hours ........................................... 22
Total required hours for degree ............................... 64

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

(see degree requirements listed under Education)
BUSINESS MANAGEMENT

Emerson E. Evans School of Business
College of Professional & Technical Studies
Bob Evans Farms Hall
740.245.7373 office; 740.245.7110 fax

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
♦ Minors – Accounting, Banking, Healthcare Administration, Information Technology, & Marketing
♦ Professional Certificates – Accounting, Banking, Healthcare Administration, Information Technology, Marketing, & 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, conduct 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 two computer labs, faculty offices, a student lounge area, large and small meeting rooms, as well as classrooms.

Accreditation
The Emerson E. Evans School of Business at the University of Rio Grande has received specialized accreditation for its business programs through the International Assembly for Collegiate Business Education (IACBE) located at 11374 Strang Line Road, Lenexa, Kansas, USA. The business programs in the following degrees are accredited by the IACBE:
• Associate of Applied Business in Business Management (Main Campus and Meigs Center)
• Bachelor of Science in Business Administration (Main Campus)

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 in Business Management
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.

The Emerson E. Evans School of Business incorporates the Rio model of two-year associate degree + two-year stackable bachelor degree. As mentioned earlier, a degree in business is versatile and provides job opportunities in various occupations. Our students are required to select an area of specialization during their first semester (Accounting, Banking, Healthcare Administration, Information Technology, or Marketing). Professional Certificates are awarded upon successful completion of the associate degree and a minor will be attached to their bachelor degree.
Degree Requirements

Associate of Applied Business Degree - Business Management (9221): 61 semester hours

1st Semester (14 hours):
LA 10001 Gateway to Success ........................................... 1
HPE 10101 Human Wellness ............................................. 1
ENG 11103 Composition I ................................................ 3
MKT 21403 Principles of Marketing ............................... 3
IT 10103 Introduction to Information Technology .............. 3
ACC 11403 Principles of Accounting I ............................. 3

2nd Semester (16 hours):
COM 11103 Fund of Speech Communication .................. 3
MTH 21404 Intro to Probability & Statistics ....................... 4
BM 10403 Introduction to Business .................................. 3
ACC 12403 Principles of Accounting II ........................... 3
Professional Certificate Elective ..................................... 3

3rd Semester (15 hours):
ENG 21403 Business & Technical Writing ........................ 3
HIS 13203 World Civilization II ...................................... 3
IT 10203 MS Office/Internet ............................................ 3
BM 27403 Introduction to Business Law ......................... 3
Professional Certificate Elective ..................................... 3

4th Semester (16 hours):
HIS 12203 American History II ....................................... 3
HUM 20103 Humanities .................................................. 3
ECO 11103 Contemporary Economics ............................ 3
BM 20403 Principles of Management ............................... 3
BM 28901 Business Portfolio (2-year Capstone) ............... 1
Professional Certificate Elective ..................................... 3

Bachelor of Science – in Business Management (3041) 120 semester Hours

5th Semester (16 hours):
CHM 10404 Principles of Chemistry ............................... 4
ECO 11403 Macroeconomics ......................................... 3
BM 32403 Organizational Behavior ................................ 3
FIN 21403 Financial Investment ...................................... 3
BM 46403 Operations Management ................................. 3

6th Semester (16 hours):
BIO 11004 Plants & People .............................................. 4
BM 31403 Human Resource Management ........................ 3
BM 42403 Organizational Theory .................................... 3
BM 44403 International Business .................................... 3
Minor Elective .................................................................. 3

7th Semester (15 hours):
MUS 10403 Music Appreciation ...................................... 3
FIN 20403 Financial Management .................................... 3
BM 44503 Project Management ....................................... 3
ENT 44403 Small Business Management ......................... 3
Minor Elective .................................................................. 3

8th Semester (12 hours):
HPE 19801 Walking for Fitness ....................................... 1
BM 47903 Strategic MGT (4-yr Business Capstone) .......... 3
ECO 12403 Macroeconomics ......................................... 3
BM 49102 Internship/Experience in MGT ....................... 2
Minor Elective .................................................................. 3

Bachelor of Arts or Science – Minor in Business Management (3031)
The minor is designed for students majoring in programs other than a BS degree in Business as a means of providing expanded career options.

Minor (18 hours)
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

Accounting: Professional Certificate (92211 ) & Minor (3030)
Professional Certificate (18 hours)
BM 10403 Introduction to Business ................................. 3
BM 20403 Principles of Management ............................... 3
ACC 11403 Principles of Accounting I ............................ 3
ACC 12403 Principles of Accounting II .......................... 3
ACC 21403 Intermediate Accounting I ............................ 3
ACC 22403 Intermediate Accounting II .......................... 3

Minor (24 hours)
Professional Certificate .................................................. 18
ACC 34403 Federal Income Taxation ............................... 3
ACC 35403 Management Accounting ............................. 3

Healthcare Administration: Professional Certificate (92212) & Minor (30335)
Professional Certificate (17 hours)
BM 10403 Introduction to Business ................................. 3
BM 20403 Principles of Management ............................... 3
PHR 21403 Medical Ethics .............................................. 3
HCA 21104 Fundamentals of Health Care ....................... 4
HCA 21204 Admin. of Acute Care Facilities .................... 4

Minor (27 hours)
Professional Certificate .................................................. 17
HCA 41104 Concepts in Acute Care Facilities Mgt .......... 4
HCA 41203 Health Care Aging Patients ......................... 3
HCA 31303 Population Health ......................................... 3

Marketing: Professional Certificate (92213) & Minor (3035)
Professional Certificate (18 hours)
BM 10403 Introduction to Business ................................. 3
BM 20403 Principles of Management ............................... 3
School of Mathematics & Natural Sciences
College of Arts and Sciences

**CHEMISTRY**

Kidd Math/Science Center
740.245.7397 office; 740.245.7172 fax
schoolofsciences@rio.edu

**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. In addition, this program complements the mission of the University, the College of Arts and Sciences, and the School of Mathematics and Natural 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.
- Effectively interpret and communicate experimental results.
- 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 (must include) ...................................................... 41
BIO 12104 Biology I ................................................................. 4
CHM 15005 General Chemistry I ................................................. 5
MTH 15105 Calculus I ................................................................. 5

Major Area required hours ........................................................ 53-58
CHM 15005 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 30302 Integrated Chemistry Laboratory I ....................... 2
CHM 31202 Integrated Chemistry Laboratory II ......................... 2
CHM 32303 Inorganic Chemistry ............................................... 3
CHM 33105 Analytical Chemistry .............................................. 5
CHM 34403 Introduction to Biochemistry .................................. 3
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 15204 Calculus II .......................................................... 4
PHY 17505 General Physics I with Algebra ............................ 5
PHY 18505 General Physics II with Algebra ........................... 5
Electives 30000-40000 ............................................................ 9
Personal elective hours ............................................................ 12-17
Total required hours for degree .............................................. 120

Associate of Science – Chemistry (2421)
General Education (must include) .............................................. 41
BIO 12104 Biology I ................................................................. 4
CHM 15005 General Chemistry I ................................................. 5
MTH 14505 Precalculus ............................................................. 5

Major Area required hours ......................................................... 15
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
Personal elective hours ............................................................ 4
Total required hours for degree ................................................. 60

Bachelor of Arts or Science – Minor in Chemistry (2430)
General Education ................................................................. 40-41

CHM 15005 General Chemistry I ................................................. 5
Minor Area minimum required hours ........................................ 15
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
Major and elective hours ......................................................... 64-70
Total required hours for degree .............................................. 120

COMMUNICATION

School of Arts & Letters
College of Arts and Sciences
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

Mission Statement
The Communication program is based on a liberal arts orientation towards student learning, which facilitates critical thinking, analyzing, synthesizing, and ethical sharing of information. The overall goal of the program is to nurture lifelong development of the communication competencies students need to enhance their personal development, improve their career options, and foster civic engagement. Across courses in the communication program, students acquire critical thinking, problem solving, and teamwork skills, among other life skills that will not only serve them during college, but throughout their lives. In an increasingly global society, our aim is to ensure that graduates of the program have excellent communication skills, global knowledge, and community engagement skills that will aid in achieving the University of Rio Grande and Rio Grande Community College’s goal of promoting successful lives, careers, and responsible citizenship.

Degrees Offered
♦ Bachelor of Science – Comprehensive Major in Communication
♦ Associate of Arts – Communication
♦ Bachelor of Arts or Science – Minor in Communication

Learning Outcomes
The successful student will:
• Describe the communication discipline and its central questions.
• Employ communication theories, perspectives, principles, and questions.
• Engage in communication inquiry/research.
• Create messages appropriate to the audience, purpose, and context.
• Critically analyze messages.
• Demonstrate the ability to accomplish communicative goals (self-efficacy).
• Apply ethical communication principles and practices.
• Utilize communication to embrace difference.
• Influence public discourse.

Additional outcomes are included on each course syllabus.

Degree Requirements

Bachelor of Science – Comprehensive Major in Communication (0941)
General Education must include:
COM 11103 Fund. of Speech Communication* or
COM 10103 Intro. To Com. for Com. Majors ............. 3
ART 20204 Vector Graphics OR
ART 26904 Digital Photography .......................... 4
PSY 21503 Statistics for the Behavioral Science .... 3
Total General Education hours ................................ 45

Major Area required courses
Select one of the following:
ENG 21403 Business & Technical Writing
ENG 22103 Creative Writing ................................. 3
COM 11203 Interpersonal Communication ............... 3
COM 20103 Intercultural Communication ................. 3
Select one of the following two:
COM 21103 Oral Interpretation
THR 12303 Acting I ........................................... 3
COM 25203 Introduction Mass Communication ....... 3
COM 22303 Interviewing ...................................... 3
COM 22103 Small Group Communication ............... 3
COM 30103 Communication Theory ..................... 3
COM 33103 Health Communication ....................... 3
COM 43203 Organizational Communication ............ 3
COM 37703 Communication Seminar I ................. 3
COM 46103 Communication Seminar II ................ 3
COM 40103 Social Media Strategies ..................... 3
COM 30403 Qualitative Research .......................... 3
COM 49103 Communication Capstone .................... 3
PSY 26204 Research Methods ............................. 4
Total major area hours ........................................ 22
Personal electives................................................. 3
Total hours needed to graduate .............................. 64

Bachelor of Arts or Science – Minor in Communication (0934)
Minor Area required hours .................................. 15-18
Note: 15-18 hours of COM courses (at least 33% of which must be at the 300-400 level.

COMPUTER SCIENCE

School of Technologies
College of Professional & Technical Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

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
♦ Associate of Applied Science – Information Technology: Programming and Software Development
♦ 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 etc. a variety of common programming languages such as Java, C, Python,
• Explain ethical behavior as it relates to programming and operating computers.
• Explain fundamental concepts relating to computer operating systems, software, hardware, architecture.
• Analyze, design, develop software projects and web applications. The student should be able to explain the different aspects of the software life cycle.
• Analyze, design, develop, and administer a database system.

Facilities
McKenzie Hall opened in 1997 providing math/science/engineering students, along with the nursing students, two large lecture halls, three computer labs, a variety of lecture rooms, an anatomy lab, faculty offices and a conference

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.

Degree Requirements

Bachelor of Science – Major in Computer Science (3046)
General Education 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 21503 Introduction to database ..................... 3
CS 22003 Data Structures ................................ 3
CS 31503 Programming Languages ................... 3
CS 32003 Operating Systems ............................ 3
CS 33403 Web Programming & Development ........ 3
CS 34103 Computer Algorithms ....................... 3
CS 41103 Computer Architecture ..................... 3
CS 243/44303 Software Design ......................... 3
MTH 25403 Discrete Mathematics ........................ 3
CS Electives from 3000/4000 level ...................... 5
Total Major Area hours .................................... 35
Selected Minor and Personal electives ................... 43
Total required hours for degree ............................ 125

Bachelor of Science or Arts - Minor in Computer Science (3032)
General Education must include:
MTH 15105 Calculus I ...................................... 5
Total General Education hours ................................... 42
CS 20104 Computer Programming I ..................... 4
CS 20204 Computer Programming II ................... 4
CS 21503 Introduction to Database ..................... 3
CS Electives from 3000/4000 level ...................... 7
Total Minor Area courses .................................... 18
Major and electives hours .................................. 65
Total required hours for degree ............................ 125

DIAGNOSTIC MEDICAL SONOGRAPHY

School of Health & Behavioral Sciences
College of Professional & Technical Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

Mission Statement
The Diagnostic Medical Sonography Program provides a non-discriminatory student centered educational environment for the growth and professional development of sonographers with superior competency in multiple sonographic specialties.

Diagnostic Medical Sonography is the non-invasive use of high frequency sound waves to image anatomic structures within the body. Sonographers are specially trained individuals who work under the close supervision of radiologists, perinatologists, cardiologists, and vascular surgeons in order to assist them in determining a medical diagnosis and treatment plan for patients. The sonographer is responsible for acquiring images and/or videos of normal and abnormal structures and functions and reporting their findings to the appropriate supervising physician. Upon graduation, sonographers may be employed by hospitals, private physician practices, diagnostic imaging centers, research departments, and ultrasound machine manufacturers.

The DMS Program offers two majors, General Sonography and Cardiovascular Sonography. Both majors require one year of general coursework and one year of concentrated ultrasound classes with clinical rotations. The general coursework involves math, English, and the sciences. The second year consists of the core sonography courses, either abdomen, obstetrical and gynecological courses (General Sonography major) or cardiac and vascular courses (Cardiovascular Sonography major), as well as ultrasound physics and instrumentation.

Upon completion of an Associate of Applied Science Degree in Diagnostic Medical Sonography, graduates have the option to complete the Bachelor Degree Program that is also offered by the Diagnostic Medical Sonography Program. Completion of the bachelor’s degree would consist of the student completing the core sonography courses of the opposite major as their associate’s degree in the third year and completing a fourth year of coursework that will prepare the student for advanced careers in the field of sonography. The DMS Programs will prepare graduates to sit for the national registry examinations offered by the ARDMS, American Registry for Diagnostic Medical Sonography.

Degrees Offered
♦ Associate of Applied Science – Diagnostic Medical Sonography: General Sonography Major
♦ Associate of Applied Science – Diagnostic Medical Sonography: Cardiovascular Sonography Major
♦ Bachelor of Science – Diagnostic Medical Sonography

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

♦ Determine the correct sonography equipment to perform a specific procedure.
♦ Perform a consistent protocol for the accurate and safe application of sonographic techniques.
♦ Recognize common pathologies and general abnormalities on sonographic images.
♦ Exemplify critical thinking skills in the sonographer role to provide appropriate patient care.
♦ Demonstrate safe patient care in the sonographer role.
♦ Employ effective communication skills to work collaboratively within the healthcare team.

♦ The DMS Program offers two majors, General Sonography and Cardiovascular Sonography. Both majors require one year of general coursework and one year of concentrated ultrasound classes with clinical rotations. The general coursework involves math, English, and the sciences. The second year consists of the core sonography courses, either abdomen, obstetrical and gynecological courses (General Sonography major) or cardiac and vascular courses (Cardiovascular Sonography major), as well as ultrasound physics and instrumentation.

Upon completion of an Associate of Applied Science Degree in Diagnostic Medical Sonography, graduates have the option to complete the Bachelor Degree Program that is also offered by the Diagnostic Medical Sonography Program. Completion of the bachelor’s degree would consist of the student completing the core sonography courses of the opposite major as their associate’s degree in the third year and completing a fourth year of coursework that will prepare the student for advanced careers in the field of sonography. The DMS Programs will prepare graduates to sit for the national registry examinations offered by the ARDMS, American Registry for Diagnostic Medical Sonography.

Degrees Offered
♦ Associate of Applied Science – Diagnostic Medical Sonography: General Sonography Major
♦ Associate of Applied Science – Diagnostic Medical Sonography: Cardiovascular Sonography Major
♦ Bachelor of Science – Diagnostic Medical Sonography

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

♦ Determine the correct sonography equipment to perform a specific procedure.
♦ Perform a consistent protocol for the accurate and safe application of sonographic techniques.
♦ Recognize common pathologies and general abnormalities on sonographic images.
♦ Exemplify critical thinking skills in the sonographer role to provide appropriate patient care.
♦ Demonstrate safe patient care in the sonographer role.
♦ Employ effective communication skills to work collaboratively within the healthcare team.

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Admission Requirements:

- 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.
- Practice sonography while demonstrating professional, caring, and empathetic behaviors.
- Practice sonography in an ethical manner in alignment with organizational policies and procedures.

Accreditation:

* Both DMS associate degree programs and the bachelor’s degree program are approved by the Ohio Board of Regents. Both DMS associate degree programs are accredited by CAAHEP (Commission on Accreditation of Allied Health Education Programs).

Admission Requirements and Procedures:

Prospective applicants to the Diagnostic Medical Sonography Program should begin by applying for general admission/acceptance status to the University of Rio Grande, which can be done 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 Technology’s Allied Health Technology-Diagnostic Medical Sonography Program Application prior to April 1 of the year for which you are applying (all first year prerequisite courses must be completed or in progress by April 1 of your application year), available in the Admissions Office, in the School of Technology, or online.

It is the student’s responsibility to see that the University has a copy of his/her high school transcript and/or college transcript, ACT scores, and the Allied Health Technology-DMS Program Application prior to April 1 of the year in which you apply, 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 allied health application or turn them in to the DMS program director by April 1. No application will be considered without complete documentation.

Admission Requirements:

- Students must meet all University of Rio Grande/Rio Grande Community College admission requirements.
- Any student interested in the Diagnostic Medical Sonography Program is encouraged to take the first year of general education classes. First year curriculum must be completed before a student can be considered for admittance into the DMS program.
- Students must be admitted to URG/RGCC with their major listed as Allied Health to be considered for summer program admission. All students must also turn in a copy of their ACT scores, high school transcript, and the DMS Program Application by April 1.

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.

- Only students who are officially admitted into the Diagnostic Medical Sonography Program can take the Diagnostic Medical Sonography courses.
- 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 grade point average 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 Anatomy & Physiology I (or Biology), and Principles of Anatomy & Physiology II (or Human Anatomy and Physiology).

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.

Other Requirements:

(Once accepted to the DMS Program)

- 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.
- Current CPR certification (Students accepted into the DMS program will take CPR as a class during the first summer semester of the program.)

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:

**College*GPA (Cumulative):**
- 4.0 = 10
- 3.8 = 9
- 3.5 = 8
- 3.2 = 7
- 3.0 = 6
- 2.8 = 5
- 2.5 = 4

**ACT (Cumulative)*:**
- 30+ = 10
- 29-28 = 9
- 27-26 = 8
- 25-24 = 7
- 23-22 = 6
- 21 = 5
- 20 = 4

**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. Alternatively, if the applicant wishes to take the ACT and submit the scores, s/he may do so.

Applicants 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 relevant to the Allied Health field and required in the two-year associate degrees in DMS. This also includes college work completed under the post-secondary option (PSO). No time limit will be used for the college credits earned.

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 Anatomy & Physiology I and Bio 10204 Principles of 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.

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

General Education required courses:
- AHC 10101 Intro. to Allied Health Professions ......1
- AHC 10202 Standards of Patient Care ..............2
- AHC 13302 Medical Terminology I .................2
- BIO 10104 Principles of Anatomy & Physiology I ......4
- BIO 10204 Principles of Anatomy & Physiology II ......4
- ENG 11103 Composition I ....................................3
- LA 10001 Gateway to Success ..........................1
- MTH 21404 Intro. Probability and Statistics ........4
- PHR 21403 Medical Ethics ....................................3
- PHY 10404 Physics ............................................4
- PSY 11103 General Psychology ..........................3
- Total General Education hours ..........................30
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

<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>HCA 31104 Fund of Healthcare Management</td>
<td>4</td>
</tr>
<tr>
<td>HPE 10101 Wellness</td>
<td>1</td>
</tr>
<tr>
<td>HPE Activity Elective</td>
<td>1</td>
</tr>
<tr>
<td>General elective courses</td>
<td>17</td>
</tr>
<tr>
<td>Total General Education hours</td>
<td>26</td>
</tr>
</tbody>
</table>

**Major Area required courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMS 22801</td>
<td>Selected Topics in DMS-Basic EKG</td>
<td>3</td>
</tr>
<tr>
<td>DMS 33301</td>
<td>Cardiovascular Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>DMS 34003</td>
<td>Echocardiography I</td>
<td>3</td>
</tr>
<tr>
<td>DMS 34301</td>
<td>Cardiovascular Seminar II</td>
<td>1</td>
</tr>
<tr>
<td>DMS 34503</td>
<td>Cardiovascular Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>DMS 34601</td>
<td>Cardiovascular Registry Review</td>
<td>1</td>
</tr>
<tr>
<td>DMS 35003</td>
<td>Echocardiography II</td>
<td>3</td>
</tr>
<tr>
<td>DMS 35503</td>
<td>Cardiovascular Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>DMS 36001</td>
<td>Pediatric Echocardiography</td>
<td>1</td>
</tr>
<tr>
<td>DMS 36504</td>
<td>Cardiovascular Practicum III</td>
<td>4</td>
</tr>
<tr>
<td>DMS 38003</td>
<td>Vascular Sonography I</td>
<td>3</td>
</tr>
<tr>
<td>DMS 39003</td>
<td>Vascular Sonography II</td>
<td>3</td>
</tr>
<tr>
<td>DMS 48802</td>
<td>Selected Topics in DMS</td>
<td>2</td>
</tr>
<tr>
<td>Total major area hours</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td>Total required hours for degree</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

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

Associate Degree in Cardiovascular Sonography

<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>HCA 31104 Fund of Healthcare Management</td>
<td>4</td>
</tr>
<tr>
<td>HPE 10101 Wellness</td>
<td>1</td>
</tr>
<tr>
<td>HPE Activity elective</td>
<td>1</td>
</tr>
<tr>
<td>General elective courses</td>
<td>17</td>
</tr>
<tr>
<td>Total General Education hours</td>
<td>26</td>
</tr>
</tbody>
</table>

**Major Area required courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMS 41103</td>
<td>Abdominal Sonography I</td>
<td>3</td>
</tr>
<tr>
<td>DMS 41203</td>
<td>Gynecological Sonography</td>
<td>3</td>
</tr>
<tr>
<td>DMS 41301</td>
<td>Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>DMS 41503</td>
<td>General Sonography Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>DMS 42103</td>
<td>Abdominal Sonography II</td>
<td>3</td>
</tr>
<tr>
<td>Total major area hours</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Total required hours for degree</td>
<td>66</td>
<td></td>
</tr>
</tbody>
</table>

* Prerequisite course for all Allied Health majors. Not included in curriculum totals.
DMS 42301 Seminar II ........................................... 1
DMS 42203 Obstetrical Sonography ......................... 3
DMS 42503 General Sonography Practicum II .......... 3
DMS 43504 General Sonography Practicum III ....... 4
DMS 43601 Registry Review ..................................... 1
DMS 43701 Breast Sonography ................................. 1
DMS 48802 Selected Topics in DMS ...................... 2
Total major area .................................................. 28
Total required hours for degree ......................... 120

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 program’s website at www.rio.edu/allied-health/Diagnostic-Medical-Sonograph.cfm

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.

EDUCATION

Bunce School of Education
College of Arts and Sciences
Anniversary Hall
740.245.7328 office; 740.245.7523 fax
schoolofeducation@rio.edu

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
♦ Bachelor of Science in the licensure areas of
  • Early Childhood & Intervention Specialist Early Childhood (age 3-grade 3) **pending approval**
  • Early Childhood & Intervention Specialist (K-12) **pending approval**
  • Middle Childhood (Science, Math, Language Arts and Social Studies)
  • Adolescent to Young Adult (Social Studies, Language Arts, Math, Life Science, Health, and Physical Science)
  • Multi-Age (Physical Education, Health, Music, or Visual Arts)
♦ Associate of Applied Science
  • Physical Education
  • Pre-Kindergarten
  • Career-Technical Teaching
♦ Bachelor of Arts or Science – Minor in Health

Learning Outcomes
The student will demonstrate:
• A knowledge base in their area of licensure
• A knowledge base of teaching principles and practices
• A depth of field experiences involving diverse public school populations
• Knowledge of incorporating Reading into instructional practice

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 the Council for the Accreditation of Educator Preparation. Additionally, some licensure areas are nationally recognized by their respective Specialized Professional Association; these are noted within each licensure area.

Teacher Education Conceptual Framework
The Bunce School of Education at the University of Rio Grande (URG) recognizes the core values of our Appalachian culture, especially ties to community and place and connection to family. URG is a teaching and service institution whose primary focus is to provide educational opportunities and open “The Windows to the Future” for students of Appalachia in Southeast Ohio. This purpose is in alignment with the mission of the institution, historically and today.

The Bunce School of Education faculty provide the parameter for their conceptual framework through the theme of “Windows to the Future” which is accomplished through the Ohio Standards for the Teaching Profession. Three main organizers dominate the framework: the Focus of Teaching and Learning, the Conditions for Teaching, and Teaching as a Profession.

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 & Intervention Specialist - (age 3-grade 3)
- Early Childhood & Intervention Specialist (K-12)
- Middle Childhood - ages 8 - 14 (grades 4 through 9)

Must select two of the following concentrations:
- Language Arts
- Mathematics
- Science
- Social Studies

Must select one of the following licensure areas:
- Integrated Language Arts
- Integrated Social Studies
- Integrated Mathematics
- Life Sciences
- Physical Sciences

Must select one of the following licensure areas:
- Music
- Health
- Physical Education
- Visual Arts

Endorsements
The School of Education at the University of Rio Grande offers an Ohio Department of Education approved Early Childhood Generalist Endorsement attachment to the teaching license. This endorsement is available to Early Childhood candidates who wish to add grades 4-5 to their licensure areas. In order to obtain the Early Childhood Generalist Endorsement, teachers must successfully complete the courses outlined in the Endorsement program, and receive a passing score on the appropriate Pearson 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. Enrollment in upper level (30000-40000) education (EDU) courses is only allowed upon satisfaction of the following standards:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specifics</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 GPA in 3 classes</td>
<td>ENG 11103, 11203, and COM 11103</td>
<td></td>
</tr>
<tr>
<td>Overall 2.5 GPA</td>
<td>In 27 General Education hours</td>
<td>For score of 17 or 18, see the Education Dept. Chair</td>
</tr>
<tr>
<td>ACT score of 19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Submit 2 essays</td>
<td>“The URG Conceptual Framework” and “My Philosophy of Education”</td>
<td>Completed during EDU 20403 and EDU 10303</td>
</tr>
<tr>
<td>Sign a statement of Good Moral Character</td>
<td></td>
<td>As defined in Section 3319.30 of the Ohio Revised Code</td>
</tr>
</tbody>
</table>
Removal from Teacher Education Program
The Faculty Advisory Council will be chaired by the Education Chair. 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 G.P.A. 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 according to Ohio State Law. URG Health Services is available to administer T.B. Tests for enrolled candidates.
2. Candidate must have a current and clear background check from BCI.
3. The teacher candidate will comply with all responsibilities outlined in the School of Education Field Experience Handbook. The teacher candidate will also comply with field requirements as outlined in course syllabi.
4. 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.
5. 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 30303 Multicultural Relations.

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 the Junior Field Instructor 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 and Curriculum Content courses
2. A GPA of 2.75 in Professional Education courses.
3. A GPA of 3.0 in Methods courses (with no grade below a “C”).
4. No final course grade of Incomplete or the letter grade of “F” on transcript.
5. Submit two letters of recommendation from faculty members (forms are included in the application). One recommendation must be from an Education faculty member and one from a Licensure Area faculty member.
6. The candidate must have verification of a negative TB test before entering Junior Field Experience.
7. Candidate must have a current and clear background check from BCI.
8. Portfolio Benchmark II must be met (EDU 30303).
9. Completion of a majority of Methods Courses (form is included in the application).
10. EDU 33302 Integrating Educational Technology to be taken concurrently with Junior Field Experience.
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 the Ohio Teaching Standards, 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 Clinical Practice Coordinator is responsible for accepting and placing candidates into 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.

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

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specifics</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 GPA</td>
<td>Overall and in Professional Education courses</td>
</tr>
<tr>
<td>2.75 GPA licensure area(s)</td>
<td></td>
</tr>
<tr>
<td>No “F” on transcript or a course grade of Incomplete.</td>
<td></td>
</tr>
<tr>
<td>Grade of “C” or better</td>
<td>In all Curriculum Content, Methods courses and Professional Education courses</td>
</tr>
<tr>
<td>Passing score</td>
<td>On required Pearson APK and content area exams</td>
</tr>
<tr>
<td>Current, clear tuberculosis test (TB)</td>
<td>Test is available through URG Health Services</td>
</tr>
<tr>
<td>Current, clear BCI background check</td>
<td>Available through URG Bookstore</td>
</tr>
<tr>
<td>Enroll in EDU 48902</td>
<td>This course is taken concurrently with clinical practice. No other courses may be taken without Clinical Practice Coordinator approval.</td>
</tr>
</tbody>
</table>

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

1. Orientation and seminars must be attended by the teacher candidate.
2. The teacher candidate must follow policies outlined in the Clinical Practice Handbook.
3. 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.
4. A grade of “B” or better is required for licensure.

Removal from Clinical Practice
A teacher candidate may be removed from clinical practice by the Clinical Practice Coordinator. 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 Education Chair may ask other faculty to participate in the decision-making process.

Teacher Licensure
The Licensure Agent 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. All of the performance standards listed under “Admission to Clinical Practice”.
2. A letter grade of “B” or better in student teaching.
3. A final audit which confirms successful completion of all course work required for the requested teacher license area(s).
4. A clear criminal background check and clear FBI check.
No person may receive a teacher license who has been convicted of a felony. University of Rio Grande Campus Bookstore has electronic fingerprinting 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 Pearson 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

Common General Education Requirements
The following General Education courses are required for Bachelor of Science degrees in Early Childhood/Intervention Specialist (age 3-grade 3), Early Childhood/Intervention Specialist (K-12), Middle Childhood, AYA Language Arts, AYA Mathematics, AYA Social Studies, AYA Life Sciences, AYA Physical Sciences, Multi-Age Physical Education, and Multi-Age Visual Arts:

- COM 1103 Fund of Speech Communication ........ 3
- ENG 11103 Composition I .................................. 3
- ENG 11203 Composition II ................................. 3
- HIS 13103 or 13203* World Civilization I
  or World Civilization II .................................. 3
- HPE 10101 Human Wellness & Physical Fitness .... 1
- HPE** Any one (1) credit activity course .............. 1
- LA 10001 Gateway to Success ........................... 1
- PSY 11103 General Psychology .......................... 3
- PSY 21103 General Growth & Development ** ........ 3
- Common General Education Total ........................ 21

* Life Science and Physical Sciences may opt for a third course: SSC 11103
** Physical Education and Health have different options for this requirement
*** All Multi-Age Music General Education requirements are listed in the program course listing

NOTE: Admission to English 11103 (Composition I) is determined by placement testing scores. Students without the necessary competencies must enroll in English 10503 (Composition & Reading) or English 11003 (Fundamental Review & Composition I) depending on their score. The credits in these courses may not be used to meet any part of the General Education Communication Skills requirement.

Professional Education Requirements
The following Professional Education courses are required for Bachelor of Science degrees in Middle Childhood, AYA Language Arts, AYA Mathematics, AYA Social Studies, AYA Life Sciences, AYA Physical Sciences, Multi-Age Physical Education, and Multi-Age Visual Arts:

- EDU 10303 School & Community .......................... 3
- EDU 10201 Technology Literacy ............................ 1
- EDU 20401 Classroom Management ...................... 1
- EDU 20403 Planning for Instruction ..................... 3
- EDU 22403 Educating the Exceptional Learner ......... 3
- EDU 30303* Multicultural Relations ...................... 3
- EDU 33302* Integrating Ed. Tech. into the Curriculum .................................................. 2
- EDU 39103* Junior Field Experience ...................... 3
- EDU 41403* Educational Psychology ...................... 3
- EDU 48902* Portfolio ....................................... 2
- Professional Education Total ................................ 24

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.
** ECE/ISK-12/ECSE majors have a different requirement.

Bachelor of Science – Early Childhood Education and Early Childhood Special Education (age 3-grade 3): Four Year Dual Licensure Program (40404) (pending approval)

This dual 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
Common General Education Courses ........................................ 21
- BIO 11404 Principles of Biology .................................. 4
- MTH 11505 Mathematics for Educators I ..................... 5
- EDU 35403 Science for Elem/ESL Teachers .................. 3
- Select one of the following:
  - ENG 24103 The Literary Imagination
  - HUM 20103 The Humanities
  - PHR 10503* Philosophical Inquiry .......................... 3
- Select one of the following:
  - ART 10303 Art Appreciation
  - FPA 10503 Fine Arts
  - MUS 10403 Music Appreciation ............................. 3
- General Education Total ............................................ 39

Professional Education
Common Professional Courses ............................................. 23
- EDU 22703 Science, Health, & Nutrition Methods
  ECE/ISK12/ECSE .............................................. 3
- EDU 22603 Content Area Reading for ECE/
  ISK-12/ECSE .................................................... 3
- EDU 24603 Social Studies Methods ECE/ ISK-12/ECSE ................. 3
- EDU 31503* Phonics for ECE/ISK-12/ECSE .............. 3
- EDU 31603* Reading Methods for ECE/ ISK-12/ECSE ................. 3
- EDU 44403* Reading Assessment & Development .. 3
- EDU 47804* Math Methods & Intervention
  Techniques ECE/ISK-12/ECSE .................................. 4
- EDU 49110* Clinical Practice in the Early
  Childhood Setting ............................................ 10
- Professional Education Total ..................................... 55

Curriculum Content
- EDU 11403 Art in the Curriculum ............................... 3
- EDU 20203 Intro to Infant, Child, & Adolescent
  Development ..................................................... 3
EDU 20303 Learning Environments P-12 .....................................................3
EDU 23303 Family, School, & Community Collaboration .............................................3
EDU 25303 Professional Practices ...............................................................3
EDU 25503 Assessment in Education .........................................................3
EDU 32203* Constructivist Practices .........................................................3
EDU 34503* Classroom Mgmt. & Behavior Inv ................................3
EDU 36603* Special Ed. Programming ....................................................3
ECE/ECSE ......................................................................................3
HPE 20103 PE Class Activities, Ages 3 – Grade 9 ....................................3
HPE 24302 Safety & First Aid .................................................................2
HPE 41403 PE for Exceptional Children ................................................3
MUS 20003 Music in the Curriculum ......................................................3
Total Curriculum Content ........................................................................38
Total Hours Required For Degree .........................................................132

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

**Bachelor of Science – Early Childhood (age 3-grade 3) and Intervention Specialist (K-12): Four Year Dual Licensure Program (40403)** (pending approval)

This dual licensure program prepares candidates to teach in the PreK-Grade 12 settings.

**General Education**

Common General Education Courses ..................................................21
BIO 11404 Principles of Biology ...........................................................4
MTH 11505 Mathematics for Educators I ..............................................5
EDU 35403 Science for Elem/MS Teachers ...........................................3
Select one of the following:
   ENG 24103 The Literary Imagination .................................................
   HUM 20103 The Humanities ..............................................................
   PHR 21103 Philosophical Inquiry .....................................................3
Select one of the following:
   ART 10303 Art Appreciation ...........................................................
   FPA 10503 Fine Arts ..........................................................
   MUS 10403 Music Appreciation .....................................................3
General Education Total ......................................................................39

**Professional Education**

Common Professional Courses .......................................................23
EDU 22703 Science, Health, & Nutrition Methods ECE/ISK-12/ECSE ....3
EDU 22603 Content Area Reading for ECE/ISK-12/ECSE .......3
EDU 24603 Social Studies Methods ECE/ISK-12/ECSE .........................3
EDU 31503* Phonics for ECE/ISK-12/ECSE ........................................3
EDU 31603* Reading Methods for ECE/ISK-12/ECSE ..................3
EDU 44403* Reading Assessment & Development ..................................3
EDU 47804* Math Methods & Intervention Techniques ECE/ISK-12/ECSE 4
EDU 49110* Clinical Practice in the Early Childhood Setting ................10
Professional Education Total ..........................................................55

**Curriculum Content**

EDU 11403 Art in the Curriculum ...................................................3
EDU 20203 Intro to Infant, Child, & Adolescent Development ..................3
EDU 20303 Learning Environments ................................................3
EDU 23303 Family, School, & Community Collaboration .....................3
EDU 25303 Professional Practices .......................................................3
EDU 25503 Assessment in Education ................................................3
EDU 32203* Constructivist Practices ................................................3
EDU 34503* Classroom Mgmt. & Behavior Inv .....................................3
EDU 36603* Special Ed. Programming ................................................3
ECE/ECSE ......................................................................................3
HPE 20103 PE Class Activities, Ages 3–Grade 9 .................................3
HPE 24302 Safety & First Aid ..............................................................2
HPE 41403 PE for Exceptional Children ................................................3
MUS 20003 Music in the Curriculum ..................................................3
Total Curriculum Content ......................................................................38
Total Hours Required For Degree .........................................................132

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

**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 - 62 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 Association for Middle Level Education (AMLE) and approved by the Ohio Department of Education for Initial Four-Year Resident Educator 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
Common General Education Courses .................. 21
MTH 11505 Mathematics for Educators I .......... 5
Select one of the following:
  ART 10303 Art Appreciation
  FPA 10503 Fine Arts
  MUS 10403 Music Appreciation .................... 3
Select one of the following:
  ENG 24103 The Literary Imagination
  HUM 20103 The Humanities
  PHR 21103 Philosophical Inquiry .................. 3
Select one of the following:
  BIO 11404 Principles of Biology
  BIO 12104 Biology I (required for Science concentration) ............. 4
Select one of the following courses
  CHM 10404 Principles of Chemistry (required for Science concentration)
  NSC 22304 Environmental Science
  PHY 10404 Principles of Physics .................... 4
General Education Total ........................................... 40

Professional Education
Common Professional Courses .......................... 24
EDU 10201 Technology Literacy ....................... 1
EDU 23503 Content Area Reading for Middle Childhood ......................... 3
EDU 26501 Middle Childhood Seminar I .............. 1
EDU 33203* Phonics for Middle Childhood .......... 3
EDU 33403* Reading Methods for Middle Childhood ........................................ 3
EDU 44403* Reading Assessment & Development . 3
EDU 49210* Clinical Practice in the Middle Childhood Setting ........................................ 1
Select two from the following:
  EDU 22203 Science, Health, & Nutrition
   Methods for MC ............................................ 3
  EDU 26403 MC Integrated Social Studies
   Methods .................................................... 3
  EDU 37503* MC Integrated Language Arts
   Methods .................................................... 3
  EDU 48304* Math Methods & Intervention
   Techniques for MC ....................................... 4
Professional Education Total .................................. 52-53

Choose two concentrations from the four below:

Middle Childhood: Language Arts Concentration
ENG 33403 The English Language .................... 3
Select one of the following:
  ENG 24603 Children’s Literature
  ENG 24703 AYA Literature ............................ 3
Select one of the following:
  THR 10503 Introduction to Theatre
  COM 21102 Oral Interpretation .................... 2-3
Select one of the following:
  ENG 25103 American Literature to the Civil War
  ENG 25203 American Literature since the Civil War ........................................ 3
Select one of the following:
  ENG 24803 Comparative World Literature
  ENG 45203 Major Authors .................................. 3
Select one of the following:
  JRN 21103 News Writing for Media Publications
  JRN 32102 Broadcast News Writing
  ENG 38103 Professional Writing .................. 2-3
Total MC:LA Concentration ................................. 16-18

Middle Childhood: Mathematics Concentration
MTH 21404 Introductory Probability & Statistics ....4
MTH 25403 Discrete Mathematics .................. 3
MTH 26603 Number Theory ............................... 3
MTH 27403 College Geometry ............................ 3
Select one of the following sequences based on placement exam:
  MTH 14505 Pre-calculus .................................. 5
  MTH 15105 Calculus I or MTH 15105 Calculus I .................. 4-5
  MTH 15204 Calculus II .................................. 4-5
Total MC Math Concentration ............................... 22-23

Middle Childhood: Science Concentration
BIO 12204 Biology II ...................................... 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
Select one of the following:
  PHY 10404 Principles of Physics
  PHY 17505 General Physics I (preferred) .......... 4-5
Total MC: Science Concentration ....................... 26-27

Middle Childhood: Social Studies Concentration
HIS 13203 World Civilization II ..................... 3
POL 35103 Comparative Government ................ 3
SOC 24103 Minority Groups ........................... 3
SOC 36103 Social Research ............................. 3
Select one of the following:
  ATH 12103 Anthropology
  SOC 11103 Introduction to Sociology ................ 3
Select one of the following:
  ECO 11403 Introduction to Microeconomics
  ECO 12403 Introduction to Macroeconomics ....... 3
Select one of the following:
  HIS 22203 The American Experience in Global Perspective
  HIS 32103 American Cultural History I
  HIS 32203 American Cultural History II ........... 3
Select one of the following:
  POL 11103 American National Government
  POL 12103 American State Government ............ 3
Total MC:SS Concentration .................................. 24
Total Hours Required For Degree ...................... 123-135

* Only students who have been accepted into the Teacher Education Program shall be permitted to register in courses designated with an asterisk (*).
Education Program may enroll in 30000 & 40000 level EDU courses.

**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 approved by the Ohio Department of Education for Initial Four-Year Resident Educator Licensure.

**General Education**

Common General Education Courses ............... 21
BIO 11404 Principles of Biology ..................... 4

Select one from the following:

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

ENG 24103 Literary Imagination ..................... 3

Select one from the following:

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

Select one from the following:

- MTH 14505 Pre-Calculus
- MTH 15105 Calculus I
- MTH 21404 Intro to Probability & Statistics .... 4-5

General Education Total.......................... 39-40

**Professional Education**

Common Professional Courses ..................... 23
EDU 35203* AYA Content Area Reading ............ 3
EDU 48604 Integrated Language Arts Methods ...... 4
EDU 49310* Clinical Practice in the AYA Setting .. 10

Professional Education Total ....................... 41

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**Curriculum Content**

Select one from the following:

- COM 22103 Small Group Communication
- COM 22204 Argumentation & Debate ............. 3
- ENG 24703 Adolescent to 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
- ENG 33403 The English Language .................. 3
- ENG 36403 Shakespeare: From Script to Stage to Screen ........................................ 3
- ENG 37103 Literature & Media ...................... 3
- ENG 38103 Professional Writing .................... 3
- ENG 44303 Genre Studies ........................... 3
- ENG 44603 Literary Periods ........................ 3
- ENG 45103 Major Authors .......................... 3
- ENG 49003 Literature & Writing Seminar ........ 3
- JRN 22302 Graphics ................................ 2

Total Curriculum Content................................ 48-49
Total Hours Required For Degree ..................... 128-130

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

**Adolescent to Young Adult Integrated Mathematics (40432)**

This licensure program prepares candidates to teach Integrated Mathematics in Grade 7-12 settings. This program is approved by the Ohio Department of Education for Initial Four-Year Resident Educator Licensure.

**General Education**

Common General Education Courses ............... 21
BIO 11404 Principles of Biology ..................... 4

Select one from the following:

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

Select one from the following:

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

Select one from the following:

- FPA 10503 Fine Arts
- ART 10303 Art Appreciation
- MUS 10403 Music Appreciation .................... 3
- MTH 15105 Calculus I ................................ 5

General Education Total ............................. 40
### Professional Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 32503*</td>
<td>AYA Content Area Reading</td>
<td>3</td>
</tr>
<tr>
<td>EDU 48404*</td>
<td>Math Methods &amp; Intervention Tech for AYA</td>
<td>4</td>
</tr>
<tr>
<td>EDU 49310*</td>
<td>Clinical Practice in the Setting</td>
<td>10</td>
</tr>
</tbody>
</table>

**Total Professional Education:** 40

### Curriculum Content

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MTH 15204</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MTH 15304</td>
<td>Multivariable Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MTH 21704</td>
<td>Introduction to Probability</td>
<td>4</td>
</tr>
<tr>
<td>MTH 21803</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MTH 25403</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MTH 26603</td>
<td>Number Theory</td>
<td>3</td>
</tr>
<tr>
<td>MTH 27403</td>
<td>College Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MTH 27703</td>
<td>Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 37403</td>
<td>Mathematical Models</td>
<td>3</td>
</tr>
<tr>
<td>MTH 38403</td>
<td>Linear Algebra</td>
<td>3</td>
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<tr>
<td>MTH 38603</td>
<td>Abstract Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MTH 43403</td>
<td>History of Mathematics</td>
<td>3</td>
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<td>Total Curtail Content</td>
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</tr>
<tr>
<td>Total Hours Required For Degree</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

### 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 Initial Four-Year Resident Educator Licensure.

**General Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIO 11404</td>
<td>Principles of Biology</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one from the following:

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

Select one from the following:

- CHM 10404 Principals of Chemistry
- NSC 22304 Environmental Science
- PHY 10404 Principals of Physics

Select one from the following:

- FPA 10503 Fine Arts
- ART 10303 Art Appreciation
- MUS 10403 Music Appreciation

Select one from the following:

- MTH 14505 Precalculus
- MTH 15105 Calculus I
- MTH 21404 Intro Probability & Statistics

**General Education Total:** 39-40

### 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 approved by the Ohio Department of Education for Initial Four-Year Resident Educator Licensure.

**General Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 12104</td>
<td>Biology I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 10404</td>
<td>Principals of Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one from the following:

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

Select one from the following:

- FPA 10503 Fine Arts
- ART 10303 Art Appreciation
- MUS 10403 Music Appreciation

**General Education Total:** 40

### Professional Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 32503*</td>
<td>AYA Content Area Reading</td>
<td>3</td>
</tr>
<tr>
<td>EDU 48704*</td>
<td>Social Studies Methods for AYA</td>
<td>4</td>
</tr>
<tr>
<td>EDU 49310*</td>
<td>Clinical Practice in the AYA Setting</td>
<td>10</td>
</tr>
</tbody>
</table>

**Total Professional Education:** 40

### Curriculum Content

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATH 12103</td>
<td>Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ECO 11403</td>
<td>Introduction to Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 12403</td>
<td>Introduction to Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>HIS 12103</td>
<td>American History I</td>
<td>3</td>
</tr>
<tr>
<td>HIS 12203</td>
<td>American History II</td>
<td>3</td>
</tr>
<tr>
<td>HIS 13103</td>
<td>World Civilization I</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one from the following:

- HIS 3103 American Cultural History I
- HIS 32203 American Cultural History II
- HIS 22503 History of Ohio
- HIS 43703 History & Historians Seminar
- POL 11103 American National Government
- POL 31203 The American Constitutional System
- POL 35103 Comparative Government
- POL 45103 International Relations/Foreign Policy
- SOC 11103 Introduction to Sociology
- SOC 24103 Minority Groups
- SOC 36103 Social Research

**Total Curriculum Content:** 45

**Total Hours Required For Degree:** 125-126

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.
EDU 32503* AYA Content Area Reading ........3
EDU 48504* Science Methods & Intervention
   Tech for AYA ........................................4
EDU 49310* Clinical Practice in the AYA Setting... 10
Total ......................................................41

Curriculum Content
BIO 12204 Biology II ..................................4
BIO 20704 Ecology ....................................4
BIO 21404 Human Anatomy & Physiology I ......4
BIO 36404 Genetics ..................................4
Select two:
   BIO 30304 Microbiology
   BIO 31404 Vertebrate Zoology
   BIO 33404 Invertebrate Zoology
   BIO 34403 Introduction to Biochemistry
   BIO 36303 Local Flora
   BIO 37303 Cell and Molecular Biology
   BIO 43404 Parasitology ..............................7-8
CHM 15005 General Chemistry I ..................5
CHM 15505 General Chemistry II ..................5
NSC 12303 Descriptive Astronomy .................3
NSC 20303 Physical Geology .......................5
NSC 33202 Laboratory Management .............2
Select one from the following:
   PHY 17505 General Physics I with Algebra
   PHY 20505 General Physics I with Calculus ....5
Total Curriculum Content ..........................44-45
Total Hours Required For Degree ................125-126

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

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 approved by the Ohio Department of Education for Initial Four-Year Resident Educator Licensure.

Common General Education Courses** ........21
BIO 12104 Biology I .................................4
NSC 22304 Environmental Science ...............4
Select one from the following:
   ENG 24103 Literary Imagination
   HUM 20103 The Humanities
   PHR 21103 Philosophical Inquiry ................3
Select one from the following:
   FPA 10503 Fine Arts
   ART 10303 Art Appreciation
   MUS 10403 Music Appreciation ....................3
MTH 15105 Calculus I ...............................5
Total .....................................................40

Professional Education
Common Professional Courses ....................23
EDU 32503* AYA Content Area Reading ........3
EDU 48504* Science Methods & Intervention
   Tech for AYA ........................................4
EDU 49310* Clinical Practice in the AYA Setting... 10
Total ......................................................40

Curriculum Content
CHM 15005 General Chemistry I ..................5
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
MTH 15204 Calculus II ................................4
NSC 12303 Descriptive Astronomy .................3
NSC 20303 Physical Geology .......................5
NSC 33202 Laboratory Management .............2
PHY 20505 General Physics I with Calculus ....5
PHY 21505 General Physics II with Calculus .....4
PHY 37303 Thermodynamics .......................3
PHY 46404 Modern Physics .......................3
Total Curriculum Content ..........................49
Total Hours Required For Degree ................140

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

Bachelor of Science – Multi-Age*
The Multi-Age Licensure area has specific General Education, Professional Education, and Curriculum Content areas requirements. Consult the Music and Visual Arts section of the catalog for additional requirements. Students electing to pursue the Multi-Age Licensure program may select from three program offerings: Music, Physical Education, and Visual Arts.

* URG degree codes for this licensure area are:

40453 – Multi-Age Music
40454 – Multi-Age Physical Education
40451 – Multi-Age Visual Arts
40452 – Multi-Age Health

Multi-Age Music (40453)
All required General Education courses for Multi-Age Music are listed below. This program is approved by the Ohio Department of Education for Initial Four-Year Resident Educator Licensure.

General Education
ENG 11303 Composition I ..........................3
ENG 11203 Composition II ..........................3
COM 11303 Speech Communication ..............3
HPE 10101 Human Wellness and Physical Fitness ....1
HPE Any one (1) credit activity course ..........1
MUS 10501 Portfolio ..................................1
PSY 11103 General Psychology ....................3
EDU 41403 Educational Psychology .................. 3
Select one from the following:
   BIO 11404 Principles of Biology .............. 4
   BIO 12104 Biology I .................. 4
Select one from the following:
   CHM 10404 Principles of Chemistry ......... 3
   MUS 40502 Conducting .......................... 3
   MUS 23103 Music History I .................. 3
   MUS 33503 Jazz & World Music History .... 3
   General Education Total ..................... 35-36

**Professional Education**
EDU 22403 Educating the Exceptional Learner ...... 3
EDU 34203* Content Area Reading for Int. Spec./Multi-Age ............................. 3
EDU 33302* Integrating Ed. Tech. into the Classroom ........................................ 2
EDU 39103* Junior Field Experience ............ 3
EDU 48902* Portfolio ................................... 2
EDU 49710* Clinical Practice: Music .......... 10
Professional Education Total ..................... 29

**Curriculum Content**
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
MUS 14301 Computers in Music ................. 1
MUS 20302 Aural Training III ................... 3
MUS 20402 Aural Training IV ...................... 3
Select four:
   MUS 20502 Class Voice .......................... 2
   MUS 20802 Brass Methods .................. 3
   MUS 20902 String Methods .................. 3
   MUS 21002 Woodwind Methods ............. 3
   MUS 21102 Percussion Methods .......... 8
MUS 21203 FE: Marching Band ....................... 3
MUS 22103 Music Theory III ...................... 3
MUS 22203 Music Theory IV ........................ 3
MUS 23203 Music History II ...................... 3
MUS 30102 Form & Analysis .................. 2
MUS 30502 Conducting I ....................... 2
MUS 33202 Choral Literature .................. 2
MUS 33302 Instrumental Literature ............... 2
MUS 40102 Conducting II ............ 2
MUS 40302 Instrumental Arranging .......... 2
MUS 44502 Early/Mid Childhood Methods .... 2
MUS 44602 AYA Choral Methods ............... 2
MUS 44702 AYA Methods: Instrumental .. 2
MUS 49501 Senior Music Activity ........... 1
Applied Music (at least 7 credits) ......... 7
Major Ensemble (at least 7 credits) .......... 7
Minor Ensemble (at least 2 credits) .......... 2
Total Curriculum Content ...................... 70
Total Hours Required For Degree ............ 128-129

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

**Multi-Age Physical Education (40452)**
The required General Education courses for Multi-Age Physical Education do not include choosing a one-credit HPE course and offers a choice between ENG 24103, HUM 20103 and PHR 21103. In addition, PSY 21103 is a part of the Curriculum Content instead of General Education. Therefore, the Common General Education Courses total 17 rather than 21 hours. This program is approved by the Ohio Department of Education for Initial Four-Year Resident Educator Licensure.

**General Education**
Common General Education Courses
   (PSY 21103 included as Curriculum Content) ........................................ 17
Select one from the following:
   ART 10303 Art Appreciation ............................... 1
   FPA 10503 Fine Arts ................................ 3
   MUS 10403 Music Appreciation ................. 3
Select one from the following:
   ATH 12103 Anthropology .......................... 1
   HIS 12203 American History II .......... 3
   POL 11103 American National Government ... 3
   BIO 11404 Principles of Biology .................. 4
Select one from the following:
   CHM 10404 Principles of Chemistry ............... 4
   MUS 15005 General Chemistry I .................. 5
   EDU 10201 Technological Literacy .............. 1
Select one from the following:
   ENG 24103 The Literary Imagination .......... 3
   HUM 20103 The Humanities .............. 3
   PHR 21103 Philosophical Inquiry .............. 3
   HPE 13401 Human Wellness & Physical Fitness 1
   MTH 21404 Introductory Probability & Statistics .... 4
General Education Total ...................... 43-44

**Professional Education**
Common Professional Courses ............... 24
EDU 34203* Content Area Reading for Int Specialist/MultiAge .................. 3
EDU 41803* PE Teaching Methods: Age 3-Grade 9 ........................................ 3
EDU 41903* PE Teaching Methods: Grade 7-Age 21 .............. 3
EDU 49610* Clinical Practice: Physical Education 10
Professional Education Total .................. 43

**Curriculum Content**
BIO 21404 Human Anatomy & Physiology I .......... 4
HPE 10000 Field Experience: College I .......................... 
HPE 10402 Intro to Sport & Exercise Professions .... 2
Select one from the following:
  HPE 11101 Archery
  HPE 12401 Badminton
  HPE 13301 Racquetball ........................................ 1
Select one from the following:
  HPE 11201 Beginning Swimming
  HPE 11301 Intermediate Swimming
  HPE 11402 Lifeguard Training ............................... 1-2
HPE 11601 Golf .................................................. 1
HPE 11901 Folk & Social Dance .............................. 1
Select one from the following:
  HPE 15103 Team Sports I
  HPE 16103 Team Sports II ................................. 3
HPE 20000 Field Experience: College II ................. 0
HPE 20103 Physical Education Class Activities
  Ages 3-Gr 9 .................................................. 3
Select one from the following:
  HPE 22201 Officiating Softball/Baseball
  HPE 22301 Officiating Basketball
  HPE 22401 Officiating Volleyball ........................... 1
HPE 24302 Safety & First Aid .............................. 2
HPE 25201 Treatment of Athletic Injury .................. 1
Select one from the following:
  HPE 25302 Coaching Football
  HPE 25402 Coaching Basketball
  HPE 25502 Coaching Track & Field
  HPE 25602 Coaching Baseball & Softball
  HPE 25702 Coaching Volleyball ............................. 2
HPE 26202 Drug Education ................................... 2
HPE 28403 Administration of Physical
  Activity Programs ........................................... 3
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
PSY 21103 Human Growth & Development ............ 3
Total Curriculum Content ..................................... 49
Total Hours Required For Degree ......................... 136-137

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

Multi-Age Visual Arts (40451)
This program is approved by the Ohio Department of Education for Initial Four-Year Resident Educator Licensure.

General Education
Common General Education Courses ................. 24
Select one from the following:
  BIO 11404 Principles of Biology
  BIO 12104 Biology I ....................................... 4
Select one from the following:
  CHM 10404 Principles of Chemistry
  CHM 15005 General Chemistry I
  NSC 22304 Environmental Science
  PHY 10404 Principles of Physics ....................... 4-5
  MTH 21404 Intro Probability & Statistics ......... 4
  General Education Total ................................. 37-38

Professional Education
Common Professional Courses ......................... 24
  EDU 34203* Content Area Reading for
    Int Specialist/ MultiAge ................................. 3
  EDU 41504* Integrated Visual Arts Methods I .... 4
  EDU 42504* Integrated Visual Arts Methods II ... 4
  EDU 49410* Clinical Practice: Visual Arts .... 10
  Professional Education Total ......................... 45

Curriculum Content
  ART 10403 Two-Dimensional Design .................. 3
  ART 10503 Three-Dimensional Design ............... 3
  ART 12301 Art Portfolio ................................ 1
  ART 12403 Drawing I ..................................... 3
  ART 15404 Western Art History I .................... 4
  ART 20104 Raster Graphics ............................ 4
  ART 21504 Printmaking I ................................ 4
  ART 23201 Exhibits ....................................... 1
  ART 23504 Ceramics I .................................... 4
  ART 24504 Sculpture I ................................... 4
  ART 25404 Western Art History II .................. 4
  ART 28604 Painting I .................................... 4
  ART 36503 Non-Western Art History ................. 3
  ART 46503 Art History Criticism & Philosophy 
    Electives .................................................. 3-4
  Total Curriculum Content ......................... 48-49
  Total Hours Required For Degree ................. 129-131

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

Multi-Age Health Education (40425)
The required General Education courses for Multi-Age Health Education offers a choice between ENG 24103, HUM 20103 and PHR 21103. In addition, PSY 21103 is a part of the Curriculum Content instead of General Education. Therefore, the Common General Education Courses total 18 rather than 24 hours. This program is approved by the Ohio Department of Education for Initial Four-Year Resident Educator Licensure.

General Education
Common General Education Courses .................. 18
Select one from the following:
  ART 10303 Art Appreciation
  FPA 10503 Fine Arts
  MUS 10403 Music Appreciation ....................... 3
Select one from the following:
  ATH 12103 Anthropology
His 12203 American History II
Pol 11103 American National Government .... 3
Bio 11404 Principles of Biology .................. 4
Chm 10404 Principles of Chemistry ............. 4
EDU 10201 Technological Literacy ............... 1
Select one from the following:
Eng 24103 The Literary Imagination
Hum 20103 The Humanities
Phr 21103 Philosophical Inquiry ................ 3
Mth 21404 Introductory Probability & Statistics .... 4
General Education Total ............................... 43

Professional Education
Common Professional Courses ..................... 24
EDU 34203* Content Area Reading for Int
Specialist/MultiAge .................................. 3
EDU 41603* Multi-Age Health Ed Methods:
Age 3- Grade 9 ...................................... 3
EDU 41703* Multi-Age Health Ed Methods:
Grade 7-Age 21 ...................................... 3
EDU 49510* Clinical Practice: Health Education .... 10
Professional Education Total .......................... 43

Curriculum Content
BIO 21404 Human Anatomy & Physiology I ...... 4
HPE 10202 Introduction to Health Education ........ 2
HPE 10403 Intro to Sport & Exercise Professions .. 3
HPE 16103 Team Sports II ............................ 3
HPE 21403 Personal & Community Health ........... 3
HPE 24302 Safety & First Aid ........................ 2
HPE 26202 Drug Education ............................ 2
HPE 27303 Community Health ........................ 3
HPE 27502 Human Sexuality ........................ 2
HPE 30302 Mental Health ............................ 2
HPE 33403 School Health Services .................... 3
HPE 36203 Nutrition for Sports & Exercise .......... 3
HPE 40403 Exercise Physiology ........................ 3
HPE 45202 Critical Issues in Health Seminar ....... 2
HPE 45403 Administration of Health Programs .... 3
Psy 21103 Human Growth & Development .......... 3
Total Curriculum Content ............................ 43
Total Hours Required For Degree ........................ 129

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

Early Childhood Generalist Endorsement Coursework Inventory
This endorsement is approved by the Ohio Department of Education to allow candidates with an Early Childhood license to teach grades 4-5.

EDU 26501 Middle Childhood Seminar I .......... 1
EDU 35403* Science for Early/Middle
Childhood Teachers .................................... 3
EDU 36602* Mathematics Process Standards

for Educators ........................................... 2
His 22503 History of Ohio ........................... 3
EC Generalist Total ................................. 9

* Only students who have been accepted into the Teacher Education Program may enroll in 30000 & 40000 level EDU courses.

Career-Technical Teacher Licensure Program
The primary purposes of the 27-hour Career-Technical Licensure program are to 1) provide a Licensure Program for Career-Technical teachers, 2) provide professional development opportunities for the certified career-technical teachers, and 3) to evaluate credentials of individuals desiring to become career-technical teachers. The 27-hour Inservice 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 and currently employed by 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 AYA Content Area Reading for CT .... 3
EDU 20003 Planning for Instruction/Classroom
Mgmt for CT ........................................... 3
EDU 22102 Observation & Visitation I (yr 1) ........ 2
EDU 22202 Observation & Visitation II (yr 1) ..... 2
EDU 24002 Foundations of Learning & Teaching .... 2
EDU 24101 Assessment of Learning & Teaching .... 1
EDU 26102 Observation & Visitation I (yr 2) ....... 2
EDU 26201 Observation & Visitation II (yr 2) ..... 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 ............... 1
Total Hours Req’d For Licensure ................... 27

Associate of Applied Science in Career Technical Teaching (4020)

General Education
General Education (see page 32) 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 Any one (1) credit activity course ................ 1
Mth 11403 Intermediate Algebra .................... 3
Phr 21103 Philosophical Inquiry ..................... 3
Psy 11103 General Psychology ........................ 3
SSC 11103 Introduction to Social Science .......... 3
General Education Total................................................................. 23

**Professional Education**
EDU 10201 Technological Literacy ....................... 1
EDU 12503 AYA Content Area Reading for CT .... 3
EDU 24101 Assessment of Learning & Teaching..... 1
EDU 26103 Intro to Students with Mild/Moderate
Disabilities ................................................................. 3
EDU 27702 Diversity of Learners ....................... 2
EDU 28502 Professional Development ............... 2
EDU 28601 Professional Preparation ................ 1
Professional Education Total ............................................. 13

**Curriculum Content**
EDU 20003 Planning for Instruction/Classroom
  Mgmt for CT ............................................................... 3
EDU 22102 Observation & Visitation I (yr 1) ...... 2
EDU 22202 Observation & Visitation II (yr 1).... 2
EDU 24002 Foundations of Learning & Teaching . 2
EDU 26102 Observation & Visitation I (yr 2) .... 2
EDU 26201 Observation & Visitation II (yr 2).... 1
EDU 27002 Curriculum Alignment ..................... 2
EDU 28003 Student Centered Leadership .......... 3
Career Technical Life Experience Credit* ........ 16
Total Curriculum Content................................................. 33
Total Hours Required For Degree ....................... 69

* 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. This program is approved by the Ohio Department of Education for Initial Five-Year Associate License.

**General Education**
General Education (see page 32) must include:
COM 11103 Fund of Speech Communication ....... 3
ENG 11103 Composition I ................................... 3
HPE 10101 Human Wellness & Physical Fitness ....
HPE Any one (1) credit activity course ............. 1
LA 10001 Gateway to Success ......................... 1
MTH 11505 Mathematics for Educators I ........... 5
PSY 11103 General Psychology ....................... 3
PSY 21103 Human Growth & Development ........ 3
General Education Total ........................................ 20

**Professional Education**
Must take the following two courses concurrently:
EDU 20401 Integrated Classroom Management
 & Learning Environment ........................................ 1
EDU 20403 Planning for Instruction ................. 3
EDU 22703 Science, Health, & Nutrition Methods
 & Intervention Techniques ECE/ISK-12/ECSE .... 3
EDU 22403 Educating the Exceptional Learner ... 3
EDU 22603 Content Area Reading & Intervention
ECE/ISK-12/ECSE ................................................. 3
Total ........................................................................ 3

**Curriculum Content**
EDU 11403 Art in the Curriculum ....................... 3
EDU 20203 Intro to Infant, Child, & Adolescent
  Dev (prenatal to YA) ECE/ISK-12/ECSE ........... 3
EDU 20303 Learning Environments P-12
  ECE/ISK-12/ECSE ................................................. 3
EDU 25503 Assessment in Education
  ECE/ISK-12/ECSE ................................................. 3
EDU 23303 Family, School, & Community
  Collaboration ECE/ISK-12/ECSE .................... 3
EDU 28302 Early Childhood Development
  Portfolio ............................................................... 2
EDU 29403 Early Childhood Seminar ............... 3
HPE 16203 Nutrition ................................................. 3
HPE 20103 PE Class Activities Ages 3–Grade 9 .... 3
HPE 24302 Safety & First Aid ......................... 2
MUS 20003 Music in the Curriculum ............... 3
Total Curriculum Content............................................ 31
Total Hours Required For Degree ..................... 64

**Bachelor of Arts or Science – Minor in Health**
(7431)

**General Education**
General Education (see page 32) must include:
BIO 11404 Principles of Biology .................... 4
BIO 21404 Human Anatomy & Physiology I .... 4
CHM 10404 Principles of Chemistry ............. 4
General Education Total ................................................. 33
HPE 10202 Introduction to Health Education .... 2
HPE 21403 Personal & Community Health .......... 3
HPE 24302 Safety & First Aid ......................... 2
Select one from the following:
  HPE 26202 Drug Education
  HPE 27502 Sex Education Seminar ............ 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
Selected Minor & Electives ......................... 56-59
Total Hours Needed To Graduate ..................... 126

**Physical Education**

**Associate of Arts Degree - Concentration in**
**Physical Education (7421)**
General Education
General Education (see page 32) 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 1103 General Psychology ............................ 3
General Education Total ..................................... 44

HPE 10402 Introduction to Sport & Exercise
Profession.......................................................... 3
HPE 1101 Archery .............................................. 1
HPE 11601 Beginning Swimming ............................ 1
HPE 11901 Folk & Social Dance ............................. 1
HPE 12401 Badminton ......................................... 1
HPE 12501 Gymnastics I ....................................... 1
HPE 13301 Racquetball ........................................ 1
Select one from the following:
   HPE 15103 Team Sports I
   HPE 16103 Team Sports II ................................. 3
HPE 20103 PE Class Activities, Ages 3 – Grade 9 .... 3
HPE 24302 Safety & First Aid ............................... 2
Personal Elective ................................................... 3
Major Total ....................................................... 20
Total Hours Needed To Graduate .......................... 64

ELECTRONIC TECHNOLOGY
INDUSTRIAL AUTOMATION AND
MAINTENANCE

School of Technologies
College of Professional & Technical Studies
Industrial Automation and Maintenance
Davis Career Center
740.245.7301 office; 740.245.7440 fax

Mission Statement
The Industrial Automation and Maintenance 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 Industrial Automation and Maintenance program is a two-year technical program leading to an Associate of Technical Studies Degree in Industrial Automation and Maintenance.

Studies in the Industrial Automation and Maintenance 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. 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.

Degrees Offered
♦ Associate of Technical Studies – Industrial Automation and Maintenance
♦ Bachelor of Science - Industrial Technology (using the Associate of Technical Studies in Industrial Automation and Maintenance 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 multi-meters, 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.
• begin preparation for the Certified Electronics Technician examination (CET).
• demonstrate the habit of practicing safety rules and regulations, including lock/out-tag/out, on a continuous basis.
• read and interpret control circuit ladder diagrams.

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.

The Industrial Automation and Maintenance labs 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.

Degree Requirements

Associate of Technical Studies – Electronics Technology: Industrial Automation and Maintenance (94217)
General Education must include:
COM 11103 Fundamentals of Speech .................... 3
ENG 11103 Composition I* ............................... 3
ENG 21403 Business & Technical Writing .............. 3
HIS Any 3-Hour History Course ........................... 3
LA 10001 Gateway to Success .............................................. 1
TEC 11704 Technical Mathematics I* .............................. 4
TEC 11804 Technical Mathematics II ............................... 4
PSY 11103 General Psychology ......................................... 3
HPE 24302 First Aid and Safety ...................................... 2
Total General Education hours ...................................... 29

Major Area required courses
ELE 10103 Basic Electricity/Electronics ............................. 3
ELE 21103 Programmable Controllers I ......................... 3
ELE 21203 Programmable Controllers II ......................... 3
ELE 25003 Industrial Controls ......................................... 3
ELE 27003 Robotics .................................................. 3
MFG 11102 Blueprint Reading ......................................... 2
MFG 14103 Schematic Diagram Reading ....................... 3
MFG 16102 Hydraulics & Pneumatics .............................. 3
MFG 24302 Electrical Troubleshooting & Repair ................ 2
MFG 25103 Power Transmission Devices ......................... 3
MFG 25302 Preventative Maintenance ............................. 2
MFG 25403 Mechanical Skills ........................................ 3
MFG 26102 Advanced Hydraulics & Pneumatics .......... 2
MFG 27102 OSHA .................................................. 2
Total Major Area hours ............................................. 36
Total required hours for degree .................................... 65
* Placement determined by testing.

Additional Academic Requirements
Graduation requires students to achieve a 2.00 overall grade point average in all Electronics courses and a 2.00 overall grade point average in all coursework in order to receive an associate’s degree.

To view and/or print a copy of the Electronics—Industrial Automation & Maintenance Fact sheet, which includes a suggested course sequence; visit the program’s website at http://www.rio.edu/engineering/documents/12013IndustrialAutomation.pdf

ENGLISH

School of Arts & Letters
College of Arts and Sciences
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

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 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
♦ Associate of Arts - English

Learning Outcomes
The successful student will:
• Apply critical/active reading and learning techniques to a variety of different texts, with awareness of audience, historical, cultural, and/or social contexts.
• Explore various literary forms, genres, periods, and critical approaches.
• Discern the needs of various audiences with attention to the context created at the joining of the audience’s needs with the writer’s purpose.
• Compose writings that are mechanically and grammatically correct, coherent, and engaging; or, if creative, employ figuration with sophistication and style; or, if scholarly, correctly format and document with the forms prescribed by the discipline.
• Apply the research process successfully, including technological resources, to various academic disciplines requiring different formats.
• Develop an awareness of multiple cultural contexts at play in the reading and writing of various texts (imaginative, argumentative, expository, poetic, dramatic, etc.).

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, smart classrooms, and the Instructional Design and Media Center, which assists English faculty with online learning and additional technology. The offices of senior and adjunct English faculty members are on the second floor. The Jenkins Center for Student Success, located in the James A. Rhodes Student Center, directly supports English courses with an open computer lab, test- and note-taking skills, English tutoring, reading and learning strategies, time-management instruction, 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 a 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 submit a writing sample to determine placement in the first English course. Without placement testing in writing, students are required to enroll in ENG 10503 (Integrated Developmental Reading and Writing).

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, law, ministry, banking, industrial organization, and retail, as well as being an excellent foundation for graduate work in several fields.

General Education must include:
ENG 24103 The Literary Imagination (English majors should take this course within the first three semesters) ................................................. 3
Total General Education hours .............................................. 39-40

Major Area required courses
ENG 24803 Comparative World Literature ......................... 3
ENG 25103 American Lit to the Civil War ......................... 3
ENG 25203 American Lit since the Civil War ................. 3
ENG 26103 British Lit to the Romantic Era ................... 3
ENG 26203 British Lit since the Romantic Era ............. 3
ENG 33403 The English Language .................................. 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
ENG 49003 Literature and Writing Seminar .................... 3
Select one from the following two courses:
ENG 22103 Creative Writing or
ENG 38103 Professional Writing ................................. 3
Total major area hours .................................................. 42
Selected minor and personal electives ............................... 44
Total required hours for degree .................................. 125-126

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 bachelor degrees in several fields.

Associate of Arts – English (1420)
The Associate Degree in English is designed for students who are interested in, or enjoy, writing, reading, language, and literature. This degree 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 Associate Degree 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 bachelor degrees in several fields.
General Education must include:
ENG 24103 The Literary Imagination .................. 3
Total General Education hours.......................... 39-40

Major Area required courses:
Select two from the following three courses:
ENG 22103 Creative Writing........................... 3
ENG 27503 Introduction to Film ....................... 3
ENG 26403 Shakespeare: From Script to Stage to Screen ........................................... 3
Select four from the following five courses:
ENG 24803 Comparative World Literature .......... 3
ENG 25103 American Lit to the Civil War........... 3
ENG 25203 American Lit since the Civil War .... 3
ENG 26103 British Lit to the Romantic Era ....... 3
ENG 26203 British Lit since the Romantic Era .... 3
Total major area Hours................................... 18
Personal Electives .........................................18
Total required hours for degree ..................... 60-62

ENVIRONMENTAL SCIENCE

School of Mathematics & Natural Sciences
College of Arts and Sciences
Kidd Math/Science Center
740.245.7397 office; 740.245.7172 fax

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
♦ Associate of Science – Environmental Science (pending approval)
♦ 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.
• Communicate scientific information in oral and written form.
• Relate models, theories and concepts to real world phenomena.
• 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 (must include)........................... 39
BIO 12104 Biology 1 ...................................... 4
NSC 22304 Environmental Science................... 4
MTH 21404 Introductory Probability and Statistics... 4
POL 11103 American National Government.......... 3
SOC 11103 Introduction to Sociology ................. 3

Major Area required courses ................................ 58-62
BIO 12204 Biology 2 .................................... 4
BIO 20704 Ecology ....................................... 3
BIO 47103 GIS Appli. for Research Management ... 4
CHM 15005 General Chemistry I ....................... 5
CHM 15505 General Chemistry II ..................... 5
ECO 11103 Contemporary Economics ................. 3
NSC 20303 Physical Geology ............................ 3
NSC 23101 Environmental Practicum ................ 1
NSC 49904 Directed Study Environmental Policy ... 4
NSC 49808 Environmental Internship ................. 8
PHY 10404 Principles of Physics ....................... 4
30000-4000 electives from list below* ............ 12-15

Select one Field Course:
BIO 35304 Field Biology and Methodology .......... 4
BIO 41303 Limnology .................................. 3
BIO 36303 Local Flora .................................. 3

Select one Environmental Health Course:
BIO 43404 Parasitology ................................. 4
BIO 32603 Epidemiology ................................ 3
BIO 38503 Environmental Toxicology ............... 3
BIO 30304 Microbiology ............................... 4
GENERAL STUDIES

School of Arts and Letters
College of Arts and Sciences

Select one Biology/Ecology Course:
BIO 36804 Advanced Plant Biology .................. 4
BIO 32303 Mammalogy............................... 3
BIO 33404 Invertebrate Zoology ..................... 4
BIO 36404 Genetics.................................. 4
BIO 45303 Conservation Biology .................... 3
BIO 47003 Senior Research............................ 3

Total major area hours ................................ 58-62
Personal elective hours .................................. 25-29
Total required hours for degree ......................... 125

Associate of Science in Environmental Science
(2345) (pending approval)
General Education (must include) ...................... 39
BIO 12104 Biology I.................................... 4
MTH 21404 Intro to Probability and Statistics ...... 4
NSC 22304 Environmental Science .................. 4
POL 11103 American National Government .......... 3
SOC 11103 Introduction to Sociology ................ 3

Major area required hours ................................ 29-30
BIO 12204 Biology II ................................ 4
BIO 20704 Ecology .................................... 4
CHM 15005 General Chemistry I ...................... 5
CHM 15505 General Chemistry II ..................... 5
ECO 11103 Contemporary Economics ............... 3
NSC 20303 Physical Geology ........................ 3
NSC 23101 Environmental Practicum ................ 1
PHY 10404 Principles of Physics ..................... 4

Total hours .................................................. 68-69

Bachelor of Science or Arts Degree - Minor in
Environmental Science (2344)
General Education must include ......................... 39-40
One Biology Course ..................................... 4
One Chemistry Course ................................... 4-5

Minor Area required courses ............................ 18
ECO 11103 Contemporary Economics ............... 3
NSC 22304 Environmental Science .................. 4
NSC 20303 Physical Geology ........................ 3
NSC 23101 Environmental Practicum ................ 1
NSC 49904 Directed Study Environmental Policy .. 4

Choose one of the following:
NSC 49904 Directed Study (Research) ............... 4
SOC 36103 Social Research ........................... 3

Total minor area hours .................................. 15
Selected Major and Personal elective hours .......... 69
Total required hours for degree ......................... 125

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 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
ENG 25103 American Lit. to the Civil War
ENG 25203 American Lit. since the Civil War .... 3
Select one of the following two courses:
ENG 26103 British Lit. to the Romantic Era
ENG 26203 British Lit. since the Romantic Era ... 3

Fine and Performing Arts:
FPA 10503 Fine Arts .................................... 3

Journalism:
JRN 22103 News Writing For Media Publications ... 3
JRN 2203 Graphics ....................................... 3

Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax
Music:
MUS 10403 Music Appreciation ........................................ 3
MUS 10703 Fundamentals of Music .................................. 3

Philosophy:
PHR 21103 Philosophical Inquiry ..................................... 3
PHR 21203 Ethics ......................................................... 3
PHR 24103 Logical and Critical Thinking ......................... 3

Spanish:
SPA 11103 Elementary Spanish I .................................... 3
SPA 11203 Elementary Spanish II .................................. 3
Total Communication or Humanities hours ...................... 9-10

B. Social and Behavioral Science courses selected from the following (no more than 2 courses in any one discipline)

Anthropology:
ATH 12103 Anthropology ................................................. 3
ATH 22103 Native American Anthropology ..................... 3
ATH 23103 World Archaeology and Prehistory ............ 3

Economics:
ECO 11403 Introduction to Microeconomics .................. 3
ECO 12403 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 24103 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

Mission Statement
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.

Degrees Offered
♦ Bachelor of Arts or Science – Professional Certificate & Minor in Health Care Administration
♦ Bachelor of Technical Studies-Applied Health Care Administration (2+2 Program)

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 Farm 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 classrooms.

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

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:
For a complete listing of requirements, see the Business Management section of this catalog.
Bachelor of Technical Studies Applied Health Care Administration (2+2 Program) (50513)
School of Health & Behavioral Sciences
College of Professional & Technical Studies

The School of Allied Health offers students who have completed an Associate's Degree in an Allied Health field to continue their education with the Bachelor of Technical Studies (BTS) - Applied Health Care Administration (2 + 2 Program). Students who have not completed an Allied Health Associate's Degree but are interested in the Health Care Administration field, have the opportunity to major in Business Management with a Minor in Health Care Administration. See the School of Business’ Business Management section for more information about this program.

The 2+2 program is designed to provide health care professionals with an associate degree from an accredited institution, an opportunity to complete a bachelor degree in Health Care Administration by completing 42 credit hours of specified courses and 18 general education credit hours (please refer to the listed degree requirements). The majority of the courses in the HCA BTS Program are offered online allowing convenient degree completion for the working professional.

The Applied Health Care Administration BTS degree is offered through the School of Allied Health and consists of:

- A minimum of forty-eight (42) credit hours in core courses.
- A minimum of eighteen (18) hours of general education hours for completion of the required General Education Program.
- A minimum of thirty-three (33) credit hours at the 300/400 level.
- A maximum of 125 total credit hours necessary to graduate with a BTS degree in HCA (based on an associate degree with a minimum of 65 hours).

Associate Degree in related health care profession .............. 65

General Education must include:
- MTH 21404 Intro to Probability & Statistics .................. 4
- PSY 11103 General Psychology .................................. 3
- PHR 21403 Medical Ethics ....................................... 3
- Total General Education hours .................................... 18

Business core required courses
- ACC 11403 Principles of Accounting I ....................... 3
- ACC 12403 Principles of Accounting II ....................... 3
- BM 20403 Principles of Business Management ............ 3
- Total Business Core hours ........................................ 9

Major Area required courses
- BM 31403 Human Resource Management .................. 3
- BM 44503 Project Management ............................... 3
- BM 46403 Operation Management ......................... 3
- COM 33103 Health Communication ......................... 3
- FIN 35403 Financial Administration of Healthcare Facilities .................................................. 3
- HCA 31104 Fundamentals of Health Care Management .................................................. 4
- HCA 31204 Administration of Acute Care Facilities .................. 4
- HCA 31303 Population Health .................................. 3
- HCA 41104 Concepts in Acute Care Facility Management .................................................. 4
- HCA 41203 Healthcare & Aging Patient ..................... 3
- Total Major Area hours ........................................... 33
- Total required hours for degree ............................. 125

For Additional Information
Health Care Administration program information can be found at www.rio.edu/allied-health/Health-Care-Administration.cfm or contact Stephanie Saunders, Program Advisor & Associate Professor at 1-800-282-7201, ext. 7139 or by e-mail at ssaunders@rio.edu

Admissions Office 1-800-282-7201
URG/RGCC – www.rio.edu
Online Admission Application – www.rio.edu/admissions/How-to-Apply.cfm

HISPANIC STUDIES/SPANISH

School of Arts & Letters
College of Arts and Sciences
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

Mission Statement
Courses in the Hispanic Studies/ Spanish Program seek to prepare students to be knowledgeable in 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 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 or Science – Minor in Spanish (1330)
General Education must include:
SPA 21103 Intermediate Spanish I .......................... 3
SPA 21203 Intermediate Spanish II .......................... 3
SPA 23803/33803 Spanish Linguistics .................... 3
SPA 24103 Adv 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

HISTORY

School of Arts & Letters
College of Arts and Sciences
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

Bachelor of Arts – Major in History (15401)
General Education must include:
HIS 12203 American History II ............................ 3
HIS 13203 World Civilization II ........................... 3
The following six courses are required:
HIS 12103 American History I
HIS 13103 World Civilization I
HIS 22503 History of Ohio
HIS 22603 Native Americans
HIS 23703 Introduction to the Study of History
HIS 43703 History and Historian Seminar ............ 18
Select five courses from the following list:
HIS 26303 The Habsburg Empire, 1526-1918
HIS 26403 The Ottomans
HIS 32103 American Cultural History I
HIS 32203 American Cultural History II
HIS 36103 Europe in the 19th and 20th Centuries
HIS 37103 The West in Crisis, 1900-1945
HIS 37203 Nazi Germany
HIS 37303 The Interwar Period, 1919-1939

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:
• Apply critical thinking to analyze primary and secondary sources.
• Explain the cause, effect, and relevance of specific historical events and/or periods within the broader historical context.
• Understand and articulate diverse historical interpretations.
• Clearly demonstrate the ability to understand and apply basic historical concepts, methodologies, and approaches.
• Articulate historical arguments in a variety of forms of communication.

Degree Requirements
HIS 37403 The Cold War
HIS 41103 War and Genocide
HIS 44803 Writing the History Paper
HIS 48801-03 Selected Topics in History .......... 15
Total General Education hours .......................... 42-45
Selected Minor and Personal electives .............. 51-54
Personal electives must include twelve (12) credit hours or equivalent in a modern language (other than his/her native tongue)
Total hours needed to graduate ............................ 125

Bachelor of Science – Major in History (1540)
General Education must include:
HIS 12203 American History II
HIS 13103 World Civilization I

The following six courses are required.
HIS 12103 American History I ...................... 3
HIS 13203 World Civilization II ..................... 3
HIS 23703 Introduction to the Study of History ... 3
HIS 22503 History of Ohio ............................ 3
HIS 22603 Native Americans ........................ 3
HIS 43703 History and Historians Seminar ........ 3
Select five courses from the following list:
HIS 26303 The Habsburg Empire, 1526-1918
HIS 26403 The Ottomans
HIS 32103 American Cultural History I
HIS 32203 American Cultural History II
HIS 36103 Europe in the 19th and 20th Centuries
HIS 37103 The West in Crisis, 1900-1945
HIS 37203 Nazi Germany
HIS 37303 The Interwar Period, 1919-1939
HIS 37403 The Cold War
HIS 41103 War and Genocide
HIS 44803 Writing the History Paper
HIS 48801-03 Selected Topics in History
Total five courses, three credit hours each .......... 15
At least 16 hours of HIS courses must be at the 300-400 level.

Total General Education hours .......................... 42-45
Selected Minor and Personal electives .............. 51-54
Total hours needed to graduate ............................ 125

Associate of Arts Degree – History (1520)
General Education must include:
CS 10103 PC Applications ............................ 3
Total General Education hours .......................... 42
Select four from the following seven courses:
HIS 12103 American History I
HIS 12203 American History II
HIS 22403 The Westward Movement
HIS 22503 History of Ohio
HIS 22603 Native Americans
HIS 23703 Introduction to the Study of History
HIS 26303 The Habsburg Empire, 1526-1918
HIS 26403 The Ottomans
Total four courses, three credit hours each .......... 12

Personal electives ............................................ 7
Total hours needed to graduate ............................ 64

Bachelor of Science or Arts – Minor in History (1530)
General Education must include:
HIS 12203 American History II ...................... 3
HIS 13203 World Civilization II ...................... 3
Total General Education hours .......................... 42-45
HIS 43703 History and Historians Seminar .......... 3
Select three HIS at 30000-40000 level ............ 9
Total Minor hours ............................................ 12
Selected Major and Personal electives ............... 50-53
Total hours needed to graduate ............................ 124

Adolescent to Young Adult Teacher Licensure in Integrated Social Studies and Middle Childhood Teacher Licensure Concentration in Social Studies (See School of Education).

INDUSTRIAL TECHNOLOGY

School of Technologies
College of Professional & Technical Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

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
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 must include:

Select one of the following three courses

CHM 10404 Principles of Chemistry 3
NSC 22304 Environmental Science 4
BIO 11404 Principles of Biology 4
Total General Education hours........................................39-40

Major Area required courses

ACC 10503 General Accounting Fundamentals .......... 3
BM 20403 Principles of Management......................... 3
BM or MKT courses at the 30000/40000 level .......... 6
ECO 11403 Introduction to Microeconomics .......... 3
IND 35203 Preventative Maintenance ..................... 3
IND 37102 OSHA ........................................ 3
IND 45403 Certification Seminar ............................ 3
PHY 17505 General Physics with Algebra I........... 5
PHY 32303 Statics and Strengths ........................... 3
Total Major Area hours............................................ 31
Selected IND electives (minimum 24) .......... 24 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 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 32203 Basic Pipe Welding ............................. 3
IND 32303 Local Area Networks .......................... 3
IND 33103 Advanced Pipe Welding ...................... 3
IND 34103 Materials and Metallurgy ...................... 3
IND 33204 Power Transmission Devices .............. 4
IND 34103 Materials and Metallurgy ...................... 3
IND 34303 TCP/IP ........................................ 3
IND 35003 Industrial Controls ............................ 3
IND 35203 Preventive Maintenance .................... 3
IND 36102 Hydraulics & Pneumatics ...................... 2
IND 36103 Weld Testing & Inspection .................. 3
IND 36202 Mechanical Troubleshooting ............... 2
IND 37102 Occupational Safety .......................... 2
IND 38202 Machine Repair/Maintenance ............. 2
IND 40103 Advanced Welding ............................ 3
IND 41203 Programmable Controllers II ............... 3
IND 41303 Computer Network Security ................. 3
IND 42202 Advanced CNC ............................... 2
IND 43303 Wireless Computer Networks .............. 3
IND 44202 Electrical Troubleshooting ................ 2
IND 44303 Network Design ............................... 3
IND 45403 Certification Seminar ......................... 3
IND 46102 Adv. Hydraulics & Pneumatics ............ 2
IND 47003 Robotics ....................................... 3
IND 48801-05 Selected Topics in IND .............. 1-5
IND 49001-04 Coop Education Experience ........... 1-4

To view and/or print a copy of the IND Fact sheet, which includes a suggested course sequence; visit the program’s website at www.rio.edu/engineering/Industrial-Technology.cfm

INFORMATION TECHNOLOGY – PROGRAMMING AND SOFTWARE DEVELOPMENT

School of Technologies

College of Professional & Technical Studies

Davis Career Center

740.245.7301 office; 740.245.7440 fax

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 must include:
COM 11103 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
LA10001 Gateway to Success ...................... 1
Select one of the following two courses
MTH 21404 Intro to Probability & Statistics*
MTH 14505 Pre-calculus** .......................... 4-5
General Education electives .................. 9-10
General Education Electives must come from the following three categories, and at least two of the three categories must be presented:
- Arts and Humanities
- Social and Behavioral Sciences
- Natural Sciences
Total General Education hours .......................... 30

Major Area required courses
CS 10103 PC Applications ................................ 3
CS 20104 Computer Programming I .................. 4
CS 20204 Computer Programming ................... 4
CS 21503 Introduction to Database Systems ........ 3
CS 22003 Data Structures .......................... 3
CS 24303 Software Design and Development ...... 3
ELE 10303 Microcomputer Hardware ................ 3
ELE 11303 Introduction to Networking ............. 3
Electives selected from the following courses ....... 9
ELE 14303, ELE 16303, ELE 21303, ELE 23303, ELE 24303, ELE 25303, IT 20403
Total Major Area hours ................................ 35
Total hours required for degree ........................ 65

* Placement determined by testing
** For students planning on continuing into a 4-year Computer Science Degree.

INFORMATION TECHNOLOGY – NETWORK SYSTEMS

School of Technologies
College of Professional and Applied Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

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 must include:
BM 24503 Project Management .......................... 3
COM 11103 Fundamentals of Speech ..................... 3
COM 11202 Listening ....................................... 3
ENG 11103 Composition I* ............................... 3
ENG 21403 Business & Technical Writing ............. 3
HIS 12203 American History II ......................... 3
IT 20303 DBMS Concepts .................................. 3
LA 10001 Gateway to Success .......................... 3
MTH 11403 Intermediate Algebra* .................... 3
PSY 11103 General Psychology ....................... 3
Total General Education hours .......................... 30

Major Area required courses:
ELE 10303 Microcomputer Hardware .................. 3
ELE 11303 Introduction to Networking ................. 3
ELE 14303 TCP/IP ......................................... 3
ELE 16303 Linux Operating Systems .................. 3
ELE 17303 Healthcare IT .................................. 3
ELE 21303 Computer Network Security .............. 3
ELE 25303 Server Virtualization ....................... 3
ELE 23303 Wireless Computer Networks ............ 3
ELE 24303 Network Design .............................. 3
ISS 13303 Service Desk Concepts ..................... 3
Total Major Area hours .................................. 30
Total hours required for degree ...................... 60
* Placement determined by testing.

Graduation requires students to achieve a 2.0 grade point average in all major courses and a 2.0 overall grade point average 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.

INFORMATION TECHNOLOGY—
Information Services & Support

School of Technologies
College of Professional & Technical Studies
Information Services and Support
Davis Career Center
740.245.7301 office; 740.245.7440 fax

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
Δ 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.
• troubleshoot microcomputer hardware.
• troubleshoot local area network problems.
• demonstrate knowledge of service desk industry best practices.
• demonstrate knowledge of website design.
• demonstrate basic computer programming skills.

Degree Requirements

Associate of Applied Science – Information Technology: Information Services & Support (92204)
General Education must include:
BM 24503 Project Management .......................... 3
COM 11103 Fundamentals of Speech ..................... 3
ECO 11103 Contemporary Economics .................. 3
ENG 11103 Composition I* ............................... 3
ENG 21403 Business & Technical Writing ............. 3
HIS 12203 American History II ......................... 3
LA 10001 Gateway to Success .......................... 1
MTH 11403 Intermediate Algebra*............................ 3
PSY 11103 General Psychology ................................ 3
Total General Education hours.................................... 25

Major Area required courses:
CS 20104 Computer Programming I.......................... 4
CS 20204 Computer Programming II......................... 4
ELE 10303 Microcomputer Hardware....................... 3
ELE 11303 Introduction to Networking ..................... 3
ELE 16303 Linux.................................................. 3
ELE 17303 Healthcare IT....................................... 3
ELE 25303 Server Virtualization......................... 3
ISS 13303 Service Desk Concepts............................ 3
IT 20303 DBMS Concepts.................................... 3
IT 20403 Web Development.................................. 3
IT 20803 Database Communications....................... 3
Total Major Area hours......................................... 35
Total hours required for degree................................. 60

* Placement determined by testing.

Graduation requires students to achieve a 2.0 grade point average in all major courses and a 2.0 overall grade point average 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, the School of Engineering Technologies website at www.rio.edu.

LIBERAL STUDIES

School of Arts & Letters
College of Arts and Sciences
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

Mission Statement
The Liberal Studies program seeks to promote critical thinking, intellectual inquiry, and effective communication. Students choosing Liberal Studies as a major will develop skills to confront a myriad of complex problems by analyzing, from different perspectives, how events interrelate. By applying an interdisciplinary approach, students will develop skills to help them make decisions that will maximize both the individual and collective good.

Degree Offered
♦ Bachelor of Arts – Comprehensive Major in Liberal Studies

Learning Outcomes
The successful student will be able to:
- Create innovative solutions to complex problems
- Demonstrate effective use of written, oral, and electronic communication
- Analyze inter-related events from several perspectives
- Demonstrate the ability to identify concepts and to construct methods of inquiry
- Demonstrate understanding of diverse perspectives and work with people from diverse backgrounds within a global community
- Effectively use argumentation and persuasive techniques

Facilities
Robert S. Wood Hall opened in September, 1989 and contains an auditorium, several general classrooms, seminar rooms, two smart classrooms and the Instructional Design and Media Center, which assists faculty with online learning and additional technology. The offices of senior and part-time faculty are on the second floor.

Degree Requirements

Bachelor of Arts – Comprehensive Major in Liberal Studies (09401)
The Bachelor of Arts with a Comprehensive Major in Liberal Studies is intended for those individuals with broad intellectual interests who seek the enrichment, breadth of knowledge, and intellectual skills that a liberal arts education can provide. As an alternative to traditional disciplinary and specialized education, the B.A. in Liberal Studies offers a unique and innovative degree program that provides both structure and flexibility. The structuring component of the program consists of a core of team-planned courses centered on the interdisciplinary study of the humanities. The Liberal Studies faculty believe that the humanities (i.e. the study of the major ideas and values, literature and philosophy, arts and letters, and themes and images which have given meaning to human existence and which have shaped the evolution of civilization) is best approached through an interdisciplinary format which brings together different academic disciplines and perspectives for an integrated study of human thought and culture. While all students in the program are required to complete the interdisciplinary core, students (with the help of their academic advisor) get to choose an area of concentration and various elective courses to pursue their individual interests.

General Education (see page 32)................................. 42-45
Major Area required courses:
Select two of the following courses:
- HIS 12103 American History I (To 1877) .......... 3
- HIS 12203 American History II (From 1877) ...... 3
- HIS 13103 World Civilization I ....................... 3
- HIS 13203 World Civilization II ....................... 3
- HUM 20103 The Humanities .......................... 3
- SPA 11103 Elementary Spanish ....................... 3

Select 28 hours from the following General Education courses:
- ART, ATH, COM, ECO, ENG, FPA, MUS, PHR, POL, PSY, SOC, THR ............................................. 28
- Take 6 courses in area of concentration
  at 3000 or 4000 level..................................... 18
- Total Major Area hours.................................... 64
- Selected Minor and Personal electives ................. 10-13
- Total required hours for degree........................... 126

**MATHEMATICS**

*School of Mathematics & Natural Sciences*

*College of Arts and Sciences*

Kidd Math/Science Center
740.245.7397 office; 740.245.7172 fax

**Mission Statement**

The mathematics department would like 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, and it provides 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 must include:
- MTH 15105 Calculus I ..................................... 5
- CS 20104 Computer Programming I .................. 4
- Total General Education hours ............................ 44

Major Area required courses
- MTH 15204 Calculus II ................................... 4
- MTH 15304 Multivariable Calculus .................... 4
- MTH 21704 Intro to Probability ........................ 4
- MTH 21803 Intro to Statistics ........................... 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 .................... 37-42
Total hours needed to graduate ............................ 120-125

**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 must include:
MTH 15105 Calculus I .......................... 5
Total General Education hours .................. 40

Major Area required courses
MTH 15204 Calculus II .................. 4
MTH 21704 Intro to Probability ........ 4
MTH Electives (6 hours from 300 – 400 level) ....... 6
Total major area hours .......................... 17
Selected Major and Personal electives .............. 63-68
Total hours needed to graduate (minimum) ........ 120-125

Associate of Science – Concentration in
Mathematics (2821)
General Education must include:
IT 10103 Information Technology ........... 3
MTH 14505 Pre-calculus .................. 5
Any Chemistry or Physics course ........... 4-5
Total General Education hours .................. 42-43

Major Area required courses
MTH 15105 Calculus I ................. 5
MTH 15204 Calculus II .................. 4
MTH 15304 Multivariable Calculus ... 4
MTH 25403 Discrete Mathematics ....... 3
Select one of the following courses:
  MTH 21404 Intro to Probability and Statistics
  MTH 21704 Intro to Probability ........... 4
Total major area hours .......................... 17
Total hours needed to graduate .................. 60-65

MEDICAL CODING & BILLING

School of Health & Behavioral Sciences
College of Professional & Technical Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

Certificate – Medical Coding & Billing (9310)
Medical coders are some of the most sought-after professionals in the health care industry. Medical coders, also commonly referred to as health information technicians, organize and manage health information data. They ensure the quality, accuracy, accessibility, and security of health information in paper files, electronic systems, and medical billing claims. They use various classification systems to code and categorize patient information for insurance reimbursement purposes, for databases and registries, and to record and maintain patients’ medical and treatment histories.

Medical coders review health information and convert it into medical codes for billing purposes. Every medical visit results in at least two codes, one for the service provided by the practitioner and one to convey the diagnosis (or reason) for that service. Medical coding professionals ensure that these codes are applied correctly during the billing process, and they serve as advocates for medical facilities, health practitioners, and patients. In maximizing the accuracy of claims and compliance levels, skilled medical coders optimize the billing process and lower health care costs throughout the entire industry.

Program Overview
The University of Rio Grande offers a Medical Coding and Billing Certificate that not only prepares students to sit for national certification through the American Academy of Professional Certificates (AAPC), but it also fully rounds out the students medical coding and billing education, which helps to expand the student’s medical office skill set and employment options. A Medical Coding and Billing Certificate from the University of Rio Grande is a 31-credit hour program designed to be completed in two semesters (or less than one year). The program starts every fall and completes the following spring semester. The program is currently offered at the institution’s main campus and at the Jackson branch. It can be completed in-person or as a hybrid in-person/online option.

Certificate Requirements
This is a one-year certificate program, and it is a 1+1 certificate, as it may be used to complete a two-year degree option in Medical Office Assistant (see Office Technology).

Medical Coding & Billing Certificate
AHC 13302 Medical Terminology I .......... 2
AHC 14302 Medical Terminology II ....... 2
AHC 10302 Electronic Health Records ...... 2
AHC 10501 Healthcare Compliances and Ethics 1
AHC 20303 ICD Coding .................. 3
AHC 21203 CPT Coding .................. 3
AHC 22203 Healthcare Requirement .... 3
COM 11303 Fund. of Speech Communication ..... 3
ENG 11103 Composition I* ............... 3
LA 20303 Gateway to Workforce .......... 3
PHT 12103 Applied Science for HRC I .... 3
PHT 12203 Applied Science for HRC II .... 3
Total hours required for certificate ............... 31

*Placement determined by testing.

Courses required for online AAPC Certification Exam
(The curriculum below can be taken by students who only want to prepare for the AAPC certification exam, but they will not receive a certificate from URG/RGCC).

AHC 13302 Medical Terminology I .......... 2
AHC 14302 Medical Terminology II ....... 2
AHC 20303 ICD Coding .................. 3
AHC 28800 Online Workshop for Coding** 0
AHC 21203 CPT Coding .................. 3
PHT 12103 Applied Science for HRC I .... 3
PHT 12203 Applied Science for HRC II .... 3
Total required hours for certificate................................. 16

**Students will be required to take an online workshop course to explain how courses are to be delivered and used by the students. There is a flat-rate fee for this workshop.

Program Contact Information
Robyn Blache, Coding Instructor, Program Coordinator, School of Health and Behavioral Sciences, 740-245-7522, rblache@rio.edu

Vicki L. Crabtree, Co-Chair, School of Health and Behavioral Sciences, 740-245-7364, 740-245-7316, vickiec@rio.edu

MUSIC

School of Arts & Letters
College of Arts and Sciences
Berry Fine and Performing Arts Center
740.245.7364 office; 740.245.7101 fax finearts@rio.edu

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 provide, simultaneously, many quality performance experiences through numerous outreach programs.

Additionally, 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
♦ Associate of Arts – 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 the highest possible level.
• Demonstrate the ability to read music at sight with some fluency.
• Demonstrate their understanding of the common elements of music including rhythm, melody, harmony, musical forms, and organizational patterns, and employ this understanding in aural, verbal, and visual analyses.
• Understand a basic knowledge of music history through the present time.
• Recognize a wide variety of applicable solo and ensemble repertoire through both study and performance in ensembles as well as attendance at recitals and concerts.
• Understand how technology serves the field of music and use that technology applicable to their area of specialization.
• Adopt a sense of advocacy for music and the arts by participating in the professional organizations and associations related to their area of musical interest so they can better understand and communicate professional issues to their communities.

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.

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 that 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.

Admission to the Teacher Education Program
The application for admission to the Teacher Education Program will be completed during the student’s enrollment in
LA 10001 Music Section. 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 grade point average (G.P.A.) of 3.0 in the following written and oral communication courses: ENG 11103, ENG 11203 Composition II, and COM 11103 Fundamentals of Speech.
2. An overall G.P.A. of 2.5 in at least twenty-seven (27) semester hours of the general education coursework.
3. An American College Test (ACT) score of at least 19.
4. If you have a score of 17 or 18 on the ACT you may request a review by a faculty committee to consider your application into the School of Education. All other requirements must be met before a committee will consider your request. The committee will consist of the department chair, the student’s advisor and one additional education faculty member of the student’s choice. 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 requirement is waived.
5. Submit two essays to be reviewed by faculty: “The URG Conceptual Framework” and “My Philosophy of Education” which will be completed as a part of the LA 10001 Music Section.
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, which will be completed as a part of the LA 10001 Music Section.

The candidate will receive written notification of acceptance into the School of Education by the Chair of the School of 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. Candidates are also able to rewrite essays as needed to make noted corrections or clarifications.

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 must include:
- ATH 12103 Anthropology ...........................................3
- MUS 33503 Jazz and World Music History.............3
- (Substitutes for Arts and Humanities Group I)
- PHR 21103 Philosophical Inquiry..........................3
- LA 10001 Gateway to Success.................................1
- (Must register for Music major section)

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 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
- MUS 22103 Music Theory III .................................3
- MUS 22203 Music Theory IV ................................3
- MUS 23103 Music History I .................................3
- MUS 23203 Music History II .................................3
- MUS 30102 Form and Analysis ..............................2
- MUS 30502 Conducting I ......................................2
- MUS 33202 Choral Lit ..........................................2
- MUS 33302 Instrumental Lit .................................2
- MUS 40102 Conducting II .................................2
- MUS 40302 Instrumental Arranging .....................2
- MUS 49501 Senior Music Activity ..............................1
- Applied music ..................................................7
- Major Ensemble .................................................7
- Minor Ensemble ................................................2

Total Major Area hours .............................................56

Personal elective hours ...........................................28
Total required hours for degree .................................126

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 must include:
- MUS 33503 Jazz and World Music History ............3
- (Substitute for Arts and Humanities Group I)
- ECO 11103 Contemporary Economics ................3
- LA 10001 Gateway to Success .............................1
- (Must register for Music major section)

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

Major Area required courses
- MUS 10000 Concert Attendance..............................0
Associate of Arts – Music

General Education must include:
MUS 23103 Music History I ........................................ 3
(Substitutes for Arts and Humanities Group I)
MUS 23103 Music History II ..................................... 3
(Substitute for Arts and Humanities Group II)
LA 10001 Gateway to Success .................................. 1
(Must register for the Music major section)
Total General Education hours .................................. 42-43

Music 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
MUS 14301 Computers in Music .............................. 1
MUS 20302 Aural Training III .................................. 2
MUS 20402 Aural Training IV .................................. 2
MUS 22103 Music Theory III .................................. 3
MUS 22203 Music Theory IV .................................. 3
Applied music ...................................................... 4
Ensemble ............................................................ 4
Total Music Area hours .......................................... 29
Total required hours for degree ................................. 71-72

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 at a jury before the music faculty each semester they are enrolled until their senior recital. 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 or Symphonic Band 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, 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. One skill in the following list must be completed each semester of degree study. 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.** Easy-to-moderate in difficulty performed on a recital seminar.
   b. **Scales.** Up to four sharps and flats, major keys and all 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. One must be 4-part.
   d. **Piano Accompaniment.** To a moderately easy vocal or instrumental selection to be performed at a recital seminar.

2. Reading. The following skills must be demonstrated at sight with one hour of preparation:
   a. **SATB score.** Two voices together.
   b. **Harmonization.** Improvise a simple accompaniment to a given melody using primary triads.
   c. **Chording.** With chord symbols provided, sight read a 32-bar, AABA-form piece, one time through.

**Theory, Aural Training, and History Proficiency.** Music majors are required to pass a comprehensive theory, aural training, and music history examination before the student is certified for graduation. This is usually accomplished after the end of the sophomore year, or after four semesters of study of music theory, aural training, music history, and applied lessons on their major instrument.

**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. Failure to maintain the required concert attendance could result in failure of MUS 10000 and be grounds for dismissal from the program.

**MUS 49501 Senior Music Activity.** Prior to the spring semester of the Junior year, a determination as to the nature of the Music major’s Senior Music Activity is to be made by the student’s advisor after due consideration with other appropriate music staff members. The Senior Music Activity assumes one of the following forms:

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, 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. Students must be enrolled in lessons during the semester in which they wish to schedule their recital.

**E-portfolio Presentation.** During the final college semester, the e-portfolio must be presented to the entire Music major student body and Music faculty, typically as part of the RISE event. These arrangements must be made with the cooperation and guidance of the advisor and the Music Department Coordinator. All Music majors are required to view the e-portfolio.

**NURSING**

**Holzer School of Nursing**

**College of Professional & Technical Studies**

McKenzie Hall

740.245.7302 or 740.245.7415 office; 740.245.7177 fax

schoolofnursing@rio.edu

**Mission Statement**

The mission of the Holzer School of Nursing is to provide the learner with the opportunity to attain a high quality and high value education. To this end, the Holzer School of Nursing provides the learner the knowledge and skills necessary to meet challenges and opportunities encountered in the nursing profession. An emphasis on the unique lifelong learning needs of the learner in the Holzer School of Nursing will promote successful careers and professional citizenship. The School of Nursing strives 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 are many
opportunities 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. Integrate leadership and management skills utilizing ethical decision-making and evidence-based practice.
5. 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 for the Associate Degree nursing students (ADN) and Bachelor of Science in Nursing (BSN) students 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)
5. Cornerstone, Huntington, WV (304-339-2643)
6. Early Education Station, Point Pleasant, WV (304-675-4956)
7. Edgewood Manor, Wellston, OH (740-384-5611)
8. Gallia County Health Department, Gallipolis, OH (740-441-2018)
9. Gallipolis City Schools, Gallipolis, OH (740-446-3211)
10. Holzer Health Systems, Gallipolis, OH (740-446-5000)
11. Hospice of Huntington, Huntington, WV (304-529-4217)
12. Ironton City Schools, Ironton, OH (740-532-4133)
13. Jackson County Health Department, Jackson, OH (740-286-5094)
14. King’s Daughters’ Medical Center, Ashland, KY (606-327-4000)
15. Marietta Memorial Hospital, Marietta, OH (740-374-1400)
16. Meigs Local School District, Pomeroy, OH (740-992-7814)
17. Oak Hill Union Local School District, Oak Hill, OH (740-682-6616)
18. Ohio Valley Home Health, Gallipolis, OH (740-441-1392)
19. Pleasant Valley Hospital, Pt. Pleasant, WV (304-675-4340)
22. University of Rio Grande Development Center Scioto County Health Department, Portsmouth, OH (740-355-8358)
23. Southern Ohio Medical Center, Portsmouth, OH (740-356-5000)
24. St. Mary’s Medical Center, Huntington WV (304-526-1234)
25. Symmes Valley Local Schools, Willow Wood, OH (740-643-2371)
26. TJ Daycare Center, Gallipolis, OH (740-446-4463)
27. VA Medical Center, Chillicothe, OH (740-773-1141) (Pending)
28. Vinton County Schools, McArthur, OH (740-596-5258)
29. Wellston City Schools, Wellston, OH (740-384-2152)

Accreditation
Assessment is an ongoing process within the School of Nursing. A variety of activities is used to assess students throughout the Nursing Program. The University of Rio Grande Holzer School of Nursing programs are accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Rd NE, Suite 850, Atlanta, GA 30326, (404) 975-5000.

Admission Requirements and Procedures
Students are admitted into the traditional five-semester Associate Degree 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 online, as well as 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 Grade Point Average (G.P.A.) (most recent): a minimum of 2.5 cumulative G.P.A. for high school is required OR a minimum 2.5 cumulative G.P.A. with a minimum of 12 semester hours of college level coursework is required if the college cumulative G.P.A. is used.
4. The ACT and/or University Placement 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 G.E.D.
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 G.P.A. of 2.5 or higher at the beginning of Fall Semester. Acceptance into the School of Nursing will also be contingent upon a criminal background check (FBI/BCI) and a negative 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 1 with results sent directly to Jess Neff, Secretary, School of Nursing by the start of the Fall semester.

Health Requirements
1. Vision Capabilities: Normal or corrected refraction within the range of 20/20 to 20/60 and ability to identify and distinguish colors
2. Hearing Capabilities: Possess normal or corrected hearing abilities within 0-45 decibel range.
3. Motor Capabilities: Maneuver hospital equipment without assistance. Assist in lifting patients in excess of 100 pounds using proper body mechanics. Stand for extended periods of time. Walk long distances without assistance while maneuvering/transporting patients. Possess hand/eye coordination and fine motor skills to provide adequate patient care.
4. Language Capabilities: Communicate effectively with patient and other medical personnel. It is recommended that a second language is possessed or attempted.
5. Mental Capabilities: Think and act quickly in emergencies.
6. Cope effectively with stress. Comprehend daily work activities and understand all pathology needed to present care plan or needs to members of the health care team. Possess the ability to work under close supervision, achieve deadlines, as well as adjust to irregular activity schedules. Applicant must also have the ability to concentrate and pay close attention to detail while performing patient care, patient assessments, completing required documentation, and preparing and administering medications.
7. Exposure to Hazards: Occasionally exposed to dust, odors, bodily fluids, toxic substances, unpleasant patient care activities, and infectious diseases. May frequently be exposed to noise.

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)
General Education must include:
AHC 13101 Tech & Resource Strat for Nurses …… 1
BIO 10104 Prin of Anatomy & Phys I……………… 4
BIO 10204 Prin of Anatomy & Phys II……………… 4
BIO 10302 Microbiology for Nurses………………… 2
COM 11103 Fund of Speech Communication ……… 3
ENG 11103 Composition I…………………………. 3
ENG 11203 Composition II……………………….. 3
LA 10001 Gateway to Success……………………. 1
MTH 11903 Mathematics for Nurses………………. 3
PSY 11103 General Psychology…………………... 3
SOC 11103 Intro to Sociology……………………. 3
Total General Education Hours…………………….. 30

Major Area required hours:
NUR 10505 Nursing I………………………………. 5
NUR 10606 Nursing II……………………………… 6
NUR 20404 Nursing III……………………………. 4
NUR 21303 Nursing IV…………………………….. 3
NUR 21707 Nursing V…………………………….. 7
NUR 22101 Nursing Trends……………………….. 1
NUR 20909 Nursing VI…………………………….. 9
Total Major Area hours…………………………… 35
Total Program Hours……………………………….. 65

Recommended Course Sequence – On-Campus
Advanced Placement Track for Licensed Practical Nurses Hours
First Year Level Proficiency Credits………………… 21
Nursing Transition Course Credits…………………. 12
Nursing Course Credits (earned)…………………… 20
General Education Credits…………………………. 12
Total Hours required for graduation………………... 65.

First Semester (Summer Term)……………………18
COM 11103 Fund of Speech Communication ……3
ENG 11103 Composition I…………………………. 3
NUR 11212 Nursing Transition……………………. 12

Second Semester…………………………………….16
ENG 11203 Composition II…………………………. 3
NUR 21303 Nursing IV……………………………. 4
NUR 21707 Nursing V…………………………….. 7
SOC 11103 Introduction to Sociology……………... 3

Third Semester………………………………………10
NUR 22101 Trends II……………………………… 1
NUR 20909 Nursing VI…………………………….. 9

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 11212 Nursing Transition…………………….12

Third Semester (Summer)…………………………. 4
NUR 21303 Nursing IV……………………………. 4

Fourth Semester (Fall)…………………………….. 7
NUR 21707 Nursing V…………………………….. 7

Fifth Semester (Spring)……………………………. 5
NUR 27805 ST: Medical/Surgical Nursing I……….. 5

Sixth Semester (Summer)…………………………. 6
NUR 22101 Trends II……………………………… 1
NUR 28804 ST: Medical/Surgical Nursing II……….. 4

NOTE: The required general education courses: English Composition I and II, Introduction to Sociology and Speech must be completed 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 must submit:
      I. A complete Application Form for admission and the $25.00 application fee (contact the Admissions Office for the Application Form).
      II. A complete University Medical Record Form (General form required of all students).
      III. Official transcripts from all schools of nursing, colleges, or universities attended (a high school transcript is not required for RN-BSN applicants).
      IV. 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 School of Nursing.
   h) Licensure, liability insurance, CPR certification, and immunizations must remain current throughout enrollment in the Nursing Program.

RN-BSN Degree Requirements

General Education must include:
HPE 10101 Any Activity Course.........................1
MTH 21404 Intro Probability & Statistics.............4
HIS 13203 World Civilization II....................3
FPA 10503 Fine Arts..................................3
HIS 12203 American History II.....................3
Total General Education hours..........................14

Major Area required courses:
NUR 30303 Concepts of Prof Nursing ................3
NUR 30707 Clinical Decision Making...............7
NUR 31303 Healthcare Ethics........................3
NUR 32303 Nursing Informatics......................3
NUR 40909 Nursing Ldrsplt & Nursing in the Com. 9
NUR 40303 Nursing Research........................3
NUR 41003 Issues in Nursing Practice II...........3
NUR 41004 Trans-cultural Nursing...................4
BIO 49303 Pathophysiology for Healthcare Prof....3
Total Major Area hours................................38
Upper Level Electives ..................................3
Total credits from Associate Nursing Program......65
Total hours required for graduation..................120

Recommended Course Sequence - Bachelor of Science Degree in Nursing

First Semester.............................................9
BIO 49303 Pathophysiology for Healthcare Professionals........................................3
NUR 30303 Concepts of Prof Nursing ...............3
NUR 31303 Healthcare Ethics.........................3

Second Semester....................................14
MTH 21404 Intro Probability & Statistics...........4
NUR 30707 Clinical Decision Making...............7
NUR 32303 Nursing Informatics......................3

Third Semester....................................17
FPA 10503 Fine Arts..................................3
HIS 12203 American History II.....................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 ........................................... 15
HIS 13203 World Civilization II .......................... 3
NUR 40909 Nursing Leadership & Nursing
in the Community.........................................11
NUR 41303 Issues in Nursing Practice II ............... 3
Total credits from Associate Nursing Program......... 65
Total hours required for graduation...................... 120

OFFICE TECHNOLOGY

School of Health & Behavioral Sciences
College of Professional & Technical Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

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 to 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 – Medical Coding and Billing (see page # in catalog)
- Certificate – Information 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 define common and relevant medical terms.
- Explain HIPPA guidelines relating to patient privacy and the need to follow them.
- Process patient information, health care, and insurance data
- Use source documents to determine proper diagnostic and procedure coding.
- Exposure to and hands-on experience with processing medical data by charting clerical skills, clinical skills, and patient care in an EHR (electronic health records) system.

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 Information Processing certificate and a 2.00 overall grade point average in all coursework.

Associate of Applied Business - Office Technology
The Office Technology program consists of the following three options: Administrative Office Assistant, Legal Office Assistant, and Medical Office Assistant.

Administrative Office Assistant option (9227):
General Education
COM 11103 Fundamentals of Speech..................3
ENG 11103 Composition I**...........................3
ENG 21403 Business/Technical Writing..............3
HPE 10101 Wellness ....................................1
LA 10001 Gateway to Success ..........................1
MTH 21404 Intro. to Probability and Statistics** ....4
Choose one of the following:
PSY 11103 General Psychology
SOC 11103 Intro. to Sociology .........................3
Total General Education hours ..........................18

Related required courses:
IT 10203 MS Office & Internet I .....................3
IT 20303 DBMS Concepts ............................3
IT 20403 Web Development ..........................3
PHR 21303 Business Ethics ..........................3
Total related required hours ............................12
### Major Area required courses
- ACC 10503 General Accounting Fundamentals ........................................... 3
- BM 20403 Principles of Management ......................................................... 3
- BM 24503 Project Management ...................................................................... 3
- BM 27403 Introduction to Business Law .................................................... 3
- OT 10403 Keyboarding 1* ........................................................................... 3
- OT 11403 Keyboarding II – Executive ........................................................... 3
- OT 23202 Office Machines ........................................................................... 2
- OT 24203 Records/Database Management .................................................... 3
- OT 27102 Executive Machine Transcription .................................................. 2
- OT 28202 Office Practicum ......................................................................... 2
- OT 28502 Spreadsheet Applications .............................................................. 2
- OT 28603 Word/Information Processing App ................................................ 3
- TEC 23303 Office Proc & Customer Relations ............................................ 3

### Total Major Area hours ........................................................................... 35

### Total required hours for degree .................................................................. 65

* 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.

### Medical Office Assistant option (9229):

- General Education required courses:
  - ENG 11103 Composition I** ................................................................. 3
  - LA 10001 Gateway to Success ............................................................. 1
  - MTH 11903 Mathematics for Nurses .................................................... 3
  - PHR 21403 Medical Ethics ................................................................. 3

- Select one of the following:
  - PSY 11103 General Psychology .......................................................... 3
  - SOC 11103 Intro. to Sociology ............................................................. 3
  - AHC 10202 Standards of Patient Care .................................................. 2

- Total General Education hours ................................................................. 15

- Related Courses required:
  - AHC 13302 Medical Terminology I .................................................... 2
  - AHC 14302 Medical Terminology II ..................................................... 2
  - 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 .................................................. 3

- Total related required hours .................................................................. 16

- Major Area Courses required courses:
  - ACC 10302 Electronic Health Records ............................................... 2
  - AHC 10503 General Accounting Fundamentals .................................... 3
  - AHC 20303 ICD Coding ....................................................................... 3
  - AHC 21203 CPT Coding ................................................................. 3
  - OT 10403 Keyboarding 1* .................................................................. 3
  - OT 11603 Keyboarding II – Medical ..................................................... 3
  - OT 23202 Office Machines .................................................................. 2
  - OT 24203 Records/Database Management ............................................ 3
  - OT 27302 Medical Machine Transcription .......................................... 2
  - OT 28202 Office Practicum .................................................................. 2
  - OT 28502 Spreadsheet Applications .................................................... 2
  - OT 28603 Word/Information Processing App ....................................... 3
  - TEC 23303 Office Proc & Customer Relations ..................................... 3

- Total Major Area required hours ....................................................... 34

- Total required hours for degree .......................................................... 65

* 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 five errors before they are permitted to take this course.

** Placement determined by testing.

To view and/or print a copy of the Administrative, Legal, and Medical Office Assistant Fact Sheet, which includes a suggested course sequence; visit the Office Technology
website at www.rio.edu/allied-health/Office-Technology-3-options.cfm

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
AHC 10302 Electronic Health Records .............. 2
OT 10403 Keyboarding I * ........................... 3
OT 11603 Keyboarding II – Medical ................ 3
OT 27302 Medical Machine Transcription .......... 2
OT 28603 Word/Information Processing App ........ 3
OT 28803 Adv Medical Machine Transcription .... 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 required hours for certificate .................. 32

* Prerequisite for this course is OT 10003 Beginning Keyboarding; or students need to be able, using proper keying 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 Information Processing Certificate Fact Sheet, which includes a suggested course sequence, visit the Office Technology website at www.rio.edu/allied-health/Office-Technology-3-options.cfm

Certificate – Information Processing (9201)
Information 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 grammar 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 20303 DBMS Concepts ............................. 3
IT 20403 Web Development .......................... 3
LA 10001 Gateway to Success ........................ 1
ENG 11103 Composition I* ........................... 3
OT 10403 Keyboarding I * ............................ 3
OT 11403 Keyboarding II – Executive ............... 3
OT 28502 Spreadsheet Applications .................. 2
OT 28603 Word/Information Processing App ........ 3
OT 24203 Records/Database Management .......... 3
TEC 23303 Office Proc & 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 keying 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 Information Processing Certificate Fact Sheet, which includes a suggested course sequence, visit the Office Technology website at www.rio.edu/allied-health/Office-Technology-3-options.cfm

PHARMACY TECHNICIAN

School of Health & Behavioral Sciences
College of Health Professional Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

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 given by the Pharmacy Technician Certification Board, 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, mail order pharmacies, 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
Students must meet all University of Rio Grande/Rio Grande Community College admission requirements and be officially admitted to URG. Any student who is accepted into the University of Rio Grande/Rio Grande Community College may register for all Pharmacy Technician Program courses EXCEPT PHT 10104 and PHT 10203/14204. These courses are by PROFESSOR PERMISSION ONLY. Class size in these courses is limited due to the number of clinical sites in the area. Permission may be gained by completing the Pharmacy Technician Course Application showing proof of all program requirements (see Pharmacy Technician Program Requirements). Please send applications to Keith McKinniss, Pharmacy Technician Program Director, University of Rio Grande/Rio Grande Community College, P.O. Box 500, Rio Grande, OH, 45674. Applications will be reviewed and selected by the Program Coordinator before registration ends. Applications will only be accepted after January 1 of each year, and will be accepted until August 1. If you are not accepted into the PHT program, you must reapply for the next year.

Pharmacy Technician Program Requirements
Students must meet all University of Rio Grande/Rio Grande Community College admission requirements and be officially admitted to URG.

• Recent graduates of high school (in last 5 years or less), are required to take the ACT test and pass with a composite score of 18 or higher. Results must be attached to application form.
• Students must have taken and received at least a “C” in an introductory algebra class in either high school or college, or test into Intermediate Algebra by taking the COMPASS exam. Transcripts and/or COMPASS exam results showing this, must be attached to application form.
• Must take the university’s COMPASS test and test into MTH 11403 or higher and Composition I in order to take PHT classes.
• Any needed developmental courses in writing, reading, or math must be completed with at least a “C” before registering for PHT classes. (These courses are determined by the COMPASS test.)
• Must pass both State and Federal background checks, a physical examination and necessary inoculations, and urine drug screening in order to take PHT 10203 (Pharmacy Technician Clinical II.) Payment for these tests will be the responsibility of the student at the time of testing (before second semester). Additionally, random drug screenings may be required the day the student is requested to take one. Any additional drug screenings required will also be the financial responsibility of the student.
• High school (for entering freshmen) or college transcripts must be attached to application form.
• Please note that the requirements listed in the Pharmacy Technician Program Requirements section apply to PHT 10104 Pharmacy Technician I, a course available to Pharmacy Technician students only. Applicants selected and approved by the program coordinator will be admitted into the PHT program.

Requirements for Certificate in Pharmacy Technology
• Must pass ALL required courses with a “C” or better.
• Must pass the national Pharmacy Technician Certification Examination given by the National Pharmacy Technician Certification Board by August 1 of the summer following the spring semester. The charge for this examination will be the responsibility of
the student. Student will not be awarded PHT certificate
from Rio until this examination is passed.

Certificate Requirements

Pharmacy Technician Certificate (9301)
Major required courses
AHC 13302 Medical Terminology I ..................... 2
AHC 14302 Medical Terminology II .................... 2
PHT 10104 Pharmacy Technician I ........................ 4
PHT 10203 Pharmacy Technician II Clinical .......... 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
PHT 13203 Pharmacy Math Calculations ............... 3
PHT 14204 Pharmacy Technician II .................... 4
OT 10003 Beginning Keyboarding ........................ 3
Total Major Area hours .................................... 33

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, Keith McKinniss, R.Ph. at kmckinniss@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
McKinniss.

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 Course
Application or Pharmacy Tech fact sheet, which includes a
suggested course sequence, visit the Pharmacy Technician
website at www.rio.edu/allied-health/Pharmacy-Technician.
cfm Applications and fact sheet can also be found in Davis
Career Center Room 150 located on the main campus.

PHILOSOPHY

School of Arts & Letters
College of Arts and Sciences
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

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) ethics (are morals relative or absolute?)
b) aesthetics (is beauty subjective or objective?)
c) metaphysics (idealists vs. materialists philosophies)
d) epistemology (truth of reason vs. truth of fact;
2) empiricism vs. rationalism
a) theology (does God exist?)
b) social philosophy (what is social justice?)
c) logic (good vs. bad reasoning)
d) philosophy of mind (is the mind different from the
brain?)
e) philosophy of will (is the will free or determined?)
f) political philosophy (which system of government is
the best system of government?)
3) Students will demonstrate a knowledge and
understanding of the philosophical views/theories of
major Western philosophers (e.g. Plato, Aristotle,
Aquinias, Locke, Marx, Nietzsche, etc.) and classical
Eastern philosophers (e.g. Confucius, Lao-Tzu, and
Buddha. Students will also 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.)
4) 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 32) .......................... 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

POLITICAL SCIENCE

School of Arts & Letters
College of Arts and Sciences
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

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 must include:
POL 11103 American National Government ........ 3
Total General Education hours .......................... 39-40
POL 12103 American State Government .......... 3
POL 11203 Intro to the Am Constitutional Sys .... 3
POL 15103 Intro to Comparative Government .... 3
POL 25103 Intro to International Relations ....... 3
Selected personal electives .......................... 8-9
Total hours needed to graduate ......................... 60

Bachelor of Sciences or Arts - Minor in Political Science (3430)
General Education must include:
POL 11103 American National Government ........ 3
Total General Education hours .......................... 39-40

Minor Area required courses
POL 12103 American State Government .......... 3
POL 31203 The American Constitutional System .... 3
POL 35103 Comparative Government .......... 3
POL 45103 International Relations/Foreign Policy .... 3
Total minor area hours .................................. 12
Selected Major and Personal electives ............ 68-69
Total hours needed to graduate ......................... 120

PSYCHOLOGY

School of Health & Behavioral Sciences
College of Professional & Technical Studies
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

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 – Major in Psychology (3541)
General Education must include:
- BIO 11404 Principles of Biology ......................... 4
- PSY 21503 Statistics for the Behavioral Sciences ... 3
- PSY 11103 General Psychology .......................... 3
- Total General Education hours ........................... 39-40

Major Area required courses:
- PSY 21103 Human Growth and Development ....... 3
- PSY 25403 Behavior Modification ..................... 3
- PSY 26204 Research Methods .................................. 4
- PSY 22804 Memory and Cognition ..................... 4
- PSY 33203 Social Psychology .............................. 3
- PSY 34203 Physiological Psychology .................. 3
- PSY 37103 Personality Psychology ...................... 3
- PSY 47603 History and Systems of Psychology ..... 3
- PSY 47103 Abnormal Psychology ....................... 3
- PSY 49703 Senior Capstone ............................... 3

Psychology electives – Minimum of 12 credit hours must be selected from at least two of the following three groups:

Group I:
- PSY 34103 Young Adolescent to Adulthood .......... 3
- PSY 35103 Psychological Tests & Measurements .... 3
- PSY 42203 Counseling Skills & Theoretical Foundations ........................................... 3

Group II:
- PSY 39503 Laboratory Exercise I ....................... 3
- PSY 49503 Laboratory Exercise II ....................... 3
- PSY 47903 Community Practicum in Psychology* .. 3

Group III:
- PSY 29901-03 Directed Studies in Psychology ....... 1-3
- PSY 33103 Organizational Psychology ................ 3
- PSY 34103 Sensation and Perception .................. 3
- PSY 38801-03 Selected Topics in Psychology ....... 1-3
- PSY 39902-06 Independent Study in Psychology .. 2-6

Total major credit hours ...................................... 44
Selected minor and personal electives ..................... 36-39
Total hours needed to graduate ............................ 125

Bachelor of Sciences – Minor in Psychology (3530)
General Education must include:
- PSY 11103 General Psychology .......................... 3
- BIO 11404 Principles in Biology ......................... 3
- PSY 21503 Statistics for the Behavioral Sciences ... 3
- Total General Education hours ........................... 39-40

Minor Area required courses:
- PSY 22804 Memory and Cognition ..................... 3
- PSY 26204 Research Methods ............................ 3
- PSY 33203 Social Psychology .............................. 3
- PSY 47103 Abnormal Psychology ....................... 3

Psychology electives - Minimum of 6 credit hours must be selected from at least two of the following three groups:

Group I:
- PSY 34103 Young Adolescent to Adulthood .......... 3
- PSY 35103 Psychological Tests & Measurements .... 3
- PSY 42203 Counseling Skills & Theoretical Foundations ........................................... 3

Group II:
- PSY 39503 Laboratory Exercise I ....................... 3
- PSY 49503 Laboratory Exercise II ....................... 3
- PSY 47903 Community Practicum in Psychology* .. 3

Group III:
- PSY 29901-03 Directed Studies in Psychology ....... 1-3
- PSY 33103 Organizational Psychology ................ 3
- PSY 34103 Sensation and Perception .................. 3
- PSY 38801-03 Selected Topics in Psychology ....... 1-3
- PSY 39902-06 Independent Study in Psychology .. 2-6

Total minor area hours ....................................... 18
Selected Major and personal elective hours .......... 68-69
Total hours needed to graduate ............................ 125

Associate of Arts – Concentration in Psychology (3520)
General Education (see page 32) must include:
- BIO 11404 Principles of Biology ......................... 4
- ENG 11203 Composition II .................................. 3
- PSY 11103 General Psychology .......................... 3
- Total General Education hours ........................... 39-40

Major Area courses:
- PSY 21103 Human Growth and Development .......... 3
- PSY 21503 Statistics for the Behavioral Sciences .... 3
- PSY 22804 Memory and Cognition ..................... 4
- PSY 26204 Research Methods ............................ 4
- PSY 25403 Behavior Modification ....................... 3
Total major hours ................................................. 17
Personal elective hours ........................................ 8-9
Total hours needed to graduate .......................... 64

Note: * 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 of the Dean of the College of Professional and Technical Studies. All required courses in the Psychology require a grade of “C-” or better to count toward the B.S. degree.

RADIOLOGIC TECHNOLOGY

School of Health & Behavioral Sciences
College of Professional & Technical Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

Mission Statement
In accordance with the mission of University of Rio Grande/Rio Grande Community College, the Radiologic Technology program is designed to prepare students to be competent entry-level radiographers and to contribute to the healthcare team.

The Radiologic Technology (RAD) program’s professional/general education curriculum consists of courses in biology, mathematics, and sciences to prepare students to enter the workforce as entry-level radiographers. Graduates will earn 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 educated about delivering ionizing radiation. Radiographer’s are responsible for evaluating radiographs, applying radiation safety standards at all times, and administering contrast agents for better imaging. Radiographers also provide patient education and support, and must possess a high level of “people skills.” Radiographers are employed by hospitals, clinics, mobile imaging units, urgent care centers, or diagnostic imaging centers.

Degrees Offered
- Associate of Applied Science-Radiologic Technology

Program Goals
- Students will demonstrate clinical competence.
- Student will demonstrate critical thinking skills.
- Students will demonstrate effective communication skills.
- Graduates will demonstrate professionalism.

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
Lecture and lab classes are held in Davis Career Center Room 105.

Admission Requirements and Procedures

Health Requirements
- Vision Capabilities: Normal or corrected refraction within the range of 20/20 to 20/60, distinguish between color shades.
- Hearing Capabilities: Posses 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 emergencies. Cope with stress. Comprehend daily work activities.
- Other: Pass drug/alcohol testing and required BCI & FBI background checks.

Academic Requirements
- High school or college cumulative grade point average (GPA) of 2.5 or higher. High school or College Credit Plus seniors may apply without attending a year of college first. All other College Credit Plus students are ineligible.
- Students with GEDs must successfully complete 24 credit hours as a full-time student or successful complete 24 credit hours in consecutive semesters (excluding summers) of general courses required in the 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. 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 I, algebra I, chemistry I, and physics I or college-level equivalents and earned a minimum grade of “C” in each course. If you have taken more than 1 unit of high school biology I, algebra I, chemistry I, and physics I or college level equivalents, the last completed unit score or final score in those subjects must be a minimum
grade of “C”.

• Successful completion of AHC 10101 – Introduction to Allied Health Professions. This is waived for entering high school seniors, College Credit Plus seniors, and transfer students accepted into the program. All current Rio students must have completed or be currently enrolled in the course and earned 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 earn a minimum of a “C” or better in Principles of Human Anatomy & Physiology I & II, Sectional Anatomy and/or Standards for Patient Care if enrolled in these.

• Any required and/or prerequisite courses in progress have to be completed with a minimum grade of a “C” by the end of spring semester to be eligible.

Admission Procedure

Step One:

General Requirements and Procedures

• Prospective applicants to the program should begin by applying for general admission/acceptance status to 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 years).

• It is the student’s responsibility to send an official copy of his/her high school and/or college transcript(s) and ACT scores to Rio Grande.

• Students must take the Compass exam once accepted to Rio Grande.

• Students must meet all Rio Grande admission requirements.

• Students must be admitted to Rio Grande by April 1 to be considered for RAD program admission.

Step Two:

RAD Admission Requirements and Procedures

• Complete and submit the School of Allied Health Radiologic Technology Program (RAD) Application, available in the Admissions Office, the School of Allied Health, or online at www.rio.edu/HealthandHumanServices/Radiologic-Technology.cfm by April 1 of the year you are seeking fall admission. School of Allied Health’s RAD Application will be accepted from January 1 until April.

• Submit a second set of official copies of high school transcripts that include grade from 1st grading period of senior year and/or college transcripts, including transcripts from Rio Grande and ACT scores to the RAD Program Director by April 1 of the year seeking fall admission to be considered. 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.

• No application will be considered without complete documentation.

Required Documents Checklist:

o High School Transcripts with scores from 1st grading period of senior year

o College transcripts including Rio Grande

o ACT Scores (if applicable)

o General X-ray Machine Operator’s License (if applicable)

o Allied Health Degree or Certification (if applicable)

Submit the required documentation to:

Tracey Boggs Director, Radiologic Technology Program
University of Rio Grande/Rio Grande Community College
P.O. Box 500
Rio Grande, OH 45674

Acceptance in 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. Only students who are officially admitted into the Radiologic Technology program can take the Radiologic courses.

Radiologic Technology Admission Process

Step One:

Applicants will be scored based on cumulative GPA and ACT scores or life experience, prior college experience, GXMO license, and Allied Health Degree or certification points which count for 50% of the admission criteria, based on the following point system. This is an objective scoring process.

College* GPA (Cumulative):

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<th>Score</th>
<th>Points</th>
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<td>4.0</td>
<td>10</td>
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<tr>
<td>3.8</td>
<td>9</td>
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<td>2.8</td>
<td>5</td>
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High School GPA (Cumulative):

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<tr>
<th>Score</th>
<th>Points</th>
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<tr>
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</table>
Prior College:
As a full time student, an applicant will be awarded points for successfully completing and earning a minimum of a “C” in general courses required in RAD program. This also includes college work completed under College Credit Plus 12 credit hours = 1 point
24+ credit hours = 2 points

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 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 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 higher 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 academics 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 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 Physical Examination & Medical History Form.
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.

Drug & Alcohol Testing: Students in the RAD program are subject to random drug and/or alcohol testing. Students are responsible for testing fee. The student must pass random drug/alcohol test.

BCI and FBI Background Checks: Students in the RAD program are subject to BCI and FBI background checks. Students are responsible for background check fees. The student must receive a BCI & FBI background checks with clear results.

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 10001 Gateway to Success ........................................... 1
MTH 21404 Intro to Probability and Statistics .......... 4
RAD 10101 Introduction to Radiologic Sciences ....... 1
RAD 10202 Radiation Physics ................................. 2
RAD 11103 Radiographic Positioning & Imaging Procedures I ............................................. 3
RAD 14401 Clinical Education ..................................... 1
Total hours ...................................................................... 18

First Year-Spring
AHC 10202 Standards of Patient Care .................. 2
BIO 10204 Principles of Human Anatomy & Physiology II .............................................. 4
RAD 11204 Radiographic Positioning & Imaging Procedures II ............................................ 4
RAD 11304 Imaging & Processing I ......................... 4
RAD 11502 Clinical Education I ............................. 2
Total hours ...................................................................... 16

First Year-Summer
RAD 21102 Rad Positioning & Imaging II ........... 2
RAD 21204 Clinical Education II ........................... 4
Total hours ...................................................................... 6
Second Year-Fall
ENG 11103 Composition I .................................. 3
RAD 21302 Radiobiology & Radiation Protection ... 2
RAD 21402 Imaging & Processing II .................... 2
RAD 21503 Clinical Education III ....................... 3
RAD 21701 Radiographic Pathology ...................... 1
RAD 21801 Basic Radiographic Seminar ............... 1
Total hours .................................................. 12

Second Year-Spring
AHC 10401 Sectional Anatomy .......................... 1
COM 11103 Fundamentals of Speech .................. 3
ENG 11203 Composition II .............................. 3
PHR 21403 Medical Ethics ................................. 3
RAD 11601 Computed Tomography .................... 1
RAD 21802 Radiographic Seminar ...................... 2
RAD 21903 Clinical Education IV ...................... 3
Total hours .................................................... 16
Total hours need to graduate ............................ 68
* Placement determined by COMPASS test.

The clinical education courses are 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 imaging departments. Students are responsible fortheir own transportation to and from the various clinical education sites. Clinical Education is scheduled from 8:00 a.m.-4:30 p.m. on the following days:

First Year:
Fall: Friday
Spring: Monday, Wednesday
Summer: Monday, Tuesday, Thursday, Friday

Second Year:
Fall: Tuesday, Thursday, Friday
Spring: Tuesday, Thursday, Friday

The student will not be schedule for more than 40 hours per week, which includes classes and clinical education rotations. In addition, for the safety of the students and patients, not more than ten clinical hours shall be schedule in any one day. Hours exceeding these limitation must be voluntary on the student’s part.

Students are responsible for fees associated with the cost of computer-based clinical grading and record keeping.

RAD Program Grading Scale
A  93-100
B  86-92
C  78-85
D  66-77
F  65 & below

Radiographic Academic Progression
Requirements:
- All RAD courses must be taken in sequential order.
- The student must earn a minimum of a “C” (78%) or better in all RAD courses.
- The student must earn a minimum of a “C” in Principles of Human Anatomy & Physiology I & II (or Human Anatomy & Physiology), Sectional Anatomy, and Standards for Patient Care to continue in the sequence.
- A minimum cumulative GPA of 2.0 must be maintained throughout the program.

Graduation Requirements
- Meet all Rio Grande graduation requirements.
- Earn a minimum cumulative GPA of 2.0
- Earn a minimum of a 78% in each RAD course.
- Complete all General Education courses.
- The student must successfully complete all credit hours in order to graduate.
- Complete all ARRT competencies.
- Return all personnel radiation monitors or submit a Badge Replacement Form.

A student will be ineligible to graduate from the Radiologic Technology Program and ineligible to take the National Certification Examination in Radiology through the American Registry of Radiologic Technology until all course requirements have been satisfied.

Failure to meet any, but not limited to, the above Radiographic academic requirements will result in the student’s dismissal from the program. The student may be eligible to 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:
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, OH 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.
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.

RESPIRATORY THERAPY

School of Health & Behavioral Sciences
College of Professional & Technical Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

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:
• Explain respiratory therapy techniques in a manner appropriate to current national standards, as defined by the National Board of Respiratory Care.
• Develop the application of clinical skills required for delivery of the practice Respiratory Therapy.
• Develop the skills to use critical thinking and analytical skills to promptly and accurately assess the condition of patients presenting with respiratory conditions, and to develop and implement an appropriate plan of care.
• Safely and appropriately perform cardiopulmonary resuscitation, advanced cardiac life support, and neonatal resuscitation according to national standards.
• Safely and appropriately treat and monitor patients in need of artificial respirators (life support) in the form of mechanical ventilators.

Accreditation
The Respiratory Therapy Program is accredited by the Commission on Accreditation of the Allied Health Education Programs (CAAHEP), in collaboration with the Committee on Accreditation for Respiratory Care (CoARC), 1248 Harwood Road, Bedford, TX 76021, 1-817-283-2835, www.coarc.com/.

Facilities
The lecture and lab classes are held at 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 April 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 the Respiratory Therapy Program Application by **April 1**, 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) to the RCP application or turn them in to the Chair of the School of Allied Health by **April 1**. Applications are only accepted January 1 – April 1. **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 **April 1** to be considered for fall program admission.
- Students must take the URG entrance exam (COMPASS Exam) to determine placement into math and English courses. Students must submit an Allied Health Technology—Respiratory Therapy Program Application form with official copies of high school and/or college transcripts by **April 1** to be considered for fall program admission, once all academic requirements have been met. Applications are only accepted January 1 – April 1. **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.
- Acceptance into the program is very competitive because of the limited spaces available. The number of students admitted each fall will be based upon clinical site availability. Application to the program will be reviewed and tallied based on an objective point system. The point system awards points for GPA, pre-interview test results, life experience points, college credits, and individual interview performance. Admission to the program will be awarded to those applicants who achieve the highest amount of points.
- Approval of interview panel selection by the Program Director is required for admission.
- Six 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 grade point average (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.
- 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.
- Take an entrance exam given in the Spring semester before interviews are conducted (after application deadline).

**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 pre-clinical drug testing as well as any random drug testing. Pre-clinical drug testing as well as any additional drug testing will be the financial responsibility of the student. All immunizations should be up-to-date.

**Degree Requirements**

**Associate of Applied Science – Respiratory Therapy (93205)**

General Education required courses:

- AHC 10101 Intro to Allied Health Professions* .......................... 1
- AHC 13302 Medical Terminology I ............................... 2
- BIO 10104 Principles of Human Anatomy and Physiology I** .......................................................... 4
- BIO 10302 Microbiology for Nurses ..................................... 2
- 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 ......................... 3
   - ENG 21403 Business Technical Writing ........ 3
   - LA 10001 Gateway to Success .................. 1
   - PSY 11103 General Psychology ................... 3
   - PHT 14302 Pharmacology for Respiratory Care .... 2
   - PHT 14303 Pharmacy Math for RCP ............. 3
Total General Education hours .................................. 31

Major Area required courses:
   - RCP 10204 Respiratory Fundamentals I .......... 4
   - RCP 10403 Cardiopulmonary Pathophysiology .... 3
   - RCP 10501 Respiratory Practicum I ............ 1
   - RCP 11502 Respiratory Practicum II .......... 2
   - RCP 11603 Respiratory Fundamentals II ........ 3
   - RCP 20103 Management of the Critical Patient ... 3
   - 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 21302 Cardiopulmonary Diagnostics ....... 2
   - RCP 21502 Respiratory Practicum IV .......... 2
   - RCP 21602 Respiratory Practicum V .......... 2
   - RCP 22502 Cardiopulmonary Anatomy and Physiology ........................................ 2
Total Major Area required hours ................................ 35
Total required hours for degree .................................. 66*

* 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 11203 Introductory Algebra or equivalent skill level as indicated on placement test.

*** Prerequisites of BIO 11404 Principles of Biology, MTH 11203 passed with “C” or higher or equivalent skill level as indicated on placement test. Also requires ENG 10503 passed with “C-“ or higher or equivalent skill level as indicated on placement test.

The clinical education courses will be conducted at a variety of hospitals, clinics, and diagnostic centers. The student is 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, 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 65 semester hours in order to graduate plus AHC 10101 Intro. to Allied Health Professions.)

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 Respiratory Therapy website at www.rio.edu/allied-health/Respiratory-Therapy.cfm

SOCIAL WORK

School of Health & Behavioral Sciences
College of Professional & Technical Studies
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

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 solution-focused 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 geographic 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.
- Apply critical thinking to inform and communicate professional judgments.
- Engage diversity and difference in practice.
- Advance human rights and social and economic justice.
- Engage in research-informed practice and practice-informed research.
- Apply knowledge of human behavior and the social environment.
- Engage in policy practice to advance social and economic well-being and to deliver effective social work services.
- Respond to contexts that shape practice.
- Engage, assess, plan, intervene, and evaluate with individuals, families, groups, organizations, and communities.

**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 G.P.A. of 2.50 in foundation and social science coursework, and an overall G.P.A. 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 must include:
BIO 11404 Principles of Biology..........................4

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..........................38

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-Group work............2
SWK 34303 Generalist Methods-Macrosystems........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.....................1
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 preprofessional education for the social services. Graduates of the associate degree program are not guaranteed admission to the baccalaureate Social Work Program. The curriculum in Social Services is administered by the faculty of the social work program as follows:

General Education must include:
BIO 11404 Principles of Biology......................4
HIS 13203 World Civilization II.....................3
MTH 21404 Introductory Probability and Statistics....4
**SOCIETY**

**School of Health & Behavioral Sciences**
**College of Professional & Technical Studies**
Robert S. Wood Hall
740.245.7254 office; 740.245.7432 fax

**Mission Statement**
The goal of the department is to 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.

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**Degree Requirements**

**Associate of Arts Degree – Sociology (3620)**
General Education must include:
SOC 11103 Introduction to Sociology ................. 3
Total General Education hours ........................ 39-42

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 .................... 61

**Bachelor of Arts or Science – Minor in Sociology (3630)**
General Education (see page 32) must include:
SOC 11103 Introduction to Sociology ................. 3
MTH 21404 Intro Probability & Statistics .......... 4
Total General Education hours ........................ 39-42

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 .................... 123

**Sports and Exercise Studies**

**School of Health & Behavioral Sciences**
**College of Professional & Technical Studies**
Davis Career Center
740.245.7254 office; 740.245.7432 fax

**Mission Statement**
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.
Degrees Offered
♦ Bachelor of Science – Sports and Exercise Studies
♦ Associate of Science – Sports and Exercise Studies

Bachelor of Science – Sports and Exercise Studies (74410)
General Education (see page 32) must include:
BIO 11404 Prin. of Biology ........................................... 4
CHM 10404 Principles of Chemistry .............................. 3
IT 10203 MS Office & Internet I ................................. 3
M TH 21404 Introductory Probability & Statistics ....... 4
General Education Total ............................................. 30

Major area required courses:
BIO 10104 Princ of Anatomy & Phys I ........................... 4
PSY 21103 Human Growth & Development ............... 3
HPE 10402 Intro Sport & Exercise Professions .......... 2
HPE 16203 Nutrition ................................................... 3
HPE 24103 Concepts in Exercise Science I ............... 3
HPE 24203 Concepts in Exercise Science II ............... 3
HPE 24303 Concepts in Exercise Science III ............ 3
HPE 24403 Introduction to Biomechanics ................. 3
HPE 40403 Exercise Physiology ................................. 3
HPE 43403 Motor Learning .......................................... 3
HPE 41103 Special Populations ................................. 3
HPE 41203 Strength & Cond Athletic Perf. ............ 3
HPE 48802 Selected Topics ...................................... 3
HPE 49804 Sports & Exercise Studies Internship .... 4
Select one from the following:
HPE 25302 Coaching Football
HPE 25402 Coaching Basketball
HPE 25502 Coaching Track & Field
HPE 25602 Coaching Baseball & Softball
HPE 25702 Coaching Volleyball ............................... 2
Select two activity courses (NOT weight training)
HPE 11601 Golf
HPE 12401 Badminton
HPE 13301 Racquetball
HPE 19801 Walking for Physical Fitness
HPE 11101 Archery
HPE 11201 Beginning Swimming
HPE 11301 Intermediate Swimming
HPE 11701 Swimming for Physical Fitness
HPE 11901 Folk and Social Dance
HPE 11402 Lifeguard Training
HPE 12301 Tennis .................................................... 2-3
Personal Electives ...................................................... 21
Total Major Hours ................................................... 62
Total Hours Required For Degree ............................... 125

Associate of Science – Sports and Exercise Studies (74410)
General Education (see page 32) must include:
BIO 11404 Prin. of Biology ........................................... 4
IT 10203 MS Office & Internet I ............................... 3
M TH 21404 Introductory Probability & Statistics ....... 4
General Education Total ............................................. 38

Major area required courses:
HPE 10402 Intro Sport & Exercise Professions .......... 2
HPE 16203 Nutrition ................................................... 3
HPE 24103 Concepts in Exercise Science I ............... 3
HPE 24203 Concepts in Exercise Science II ............... 3
HPE 24003 Essentials in Strength & Conditioning .... 3
HPE 28802 Selected Topics ...................................... 2
HPE 24302 Safety & First Aid .................................. 2
HPE 25201 Treatment of Athletic Injuries ................. 1
HPE 28403 Administration of Physical Act Prog ....... 3
HPE 29902 Directed Studies-Practicum ................. 2
Select one from the following:
HPE 25302 Coaching Football
HPE 25402 Coaching Basketball
HPE 25502 Coaching Track & Field
HPE 25602 Coaching Baseball & Softball
HPE 25702 Coaching Volleyball ............................... 2
Select two activity courses (NOT weight training)
HPE 11601 Golf
HPE 12401 Badminton
HPE 13301 Racquetball
HPE 19801 Walking for Physical Fitness
HPE 11101 Archery
HPE 11201 Beginning Swimming
HPE 11301 Intermediate Swimming
HPE 11701 Swimming for Physical Fitness
HPE 11901 Folk and Social Dance
HPE 11402 Lifeguard Training
HPE 12301 Tennis .................................................... 2-3
Total Major Hours ................................................... 27
Total Hours Required For Degree ............................... 65

TECHNICAL STUDIES

School of Technologies
College of Professional & Technical Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

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 requirements of the Ohio Department of Higher Education 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 courses (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 120 total credit hours necessary to graduate with a BTS degree.

Third Year – Fall

ACC 10503 General Accounting Fundamentals ..........3
BM 20403 Principles of Management ....................3
ECO 11403 Introduction to Microeconomics ..........3
MKT 36403 Professional Communication ...............3
IT 20303 DBMS Concepts ................................3
Technical electives .........................................3
Total hours ................................................................18

Third Year - Spring

BM 27403 Introduction to Business Law ............3
ECO 12403 Introduction to Macroeconomics .........3
PSY 11103 General Psychology .........................3
COM 22103 Principles of Discussion .................3
ENT 24403 Small Business Management ............3
Technical electives .........................................3
Total hours ................................................................18

Fourth Year – Fall

BM 44503 Project Management ..........................3
BM 31403 Human Resource Management ............3
MTH 21404 Introductory Probability and Statistics ..3
BM 42403 Organizational Theory .......................3
Technical electives .........................................6
Total hours .........................................................19

Fourth Year – Spring

BM 22403 Organizational Behavior ....................3
MKT 21403 Principles of Marketing .................3
BM 46403 Operations Management ..................3
Technical electives ..........................................9
Total hours .........................................................18

Prerequisites: Check 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.
WELDING

School of Technologies
College of Professional & Technical Studies
Davis Career Center
740.245.7301 office; 740.245.7440 fax

Mission Statement
The two-year Applied Technical Study Welding Technology program is designed to develop welding personnel skilled in metal product layout and design, properties of materials, welding code compliance and testing procedures, and fabrication and joining processes. The two-year course of study is organized to allow the student to develop the required skills necessary to successfully pass the mandatory pre-graduation welding performance certification test. The industrial coursework, along with a solid foundation in mathematics, science, and communications will greatly enhance the student’s understanding and employability in today’s highly diverse workplace environment.

Learning Outcomes
The successful manufacturing technology student will:
• demonstrate his or her ability to work within the safety guidelines of a welding/fabrication shop
• perform the proper equipment inspections to assure safety guideline compliance
• layout and prepare for cutting various parts, assemblies, and or, coupons to be welded
• correctly setup, operate, shutdown, and disassemble an oxy/fuel gas torch system
• correctly clean and prepare surfaces to be welded
• correctly fit up and maintain alignment of the assemblies or coupons to be welded
• properly adjust the welding process power sources in preparation for tacking and welding the assemblies or coupons to be welded
• weld the assemblies or coupons to meet the applicable code requirements
• perform the inspection processes to assure the welded assemblies or coupons meet the requirements of the applicable code

Degrees Offered
♦ Associate of Applied Technical Studies - Welding
♦ Certificate – Welding

Facilities
The Welding/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 microstructure of metals.

Degree Requirements

Associate of Technical Studies-Welding (94216)
Major Area required courses:
COM 11103 Fundamentals of Speech..................3
ELE 10103 Basic Electricity............................3
ENG 11103 Composition I*..............................3
ENG 21403 Business Technical Writing...............3
HIS **** Any 3-Hour Course..........................3
HPE 24302 Safety & First Aid........................2
LA 10001 Gateway to Success........................1
MFG 10103 Basic Welding.............................3
MFG 10203 GMAW Processes........................3
MFG 11102 Blue Print Reading.........................2
MFG 12103 Welding Testing & Inspection...........3
MFG 12403 Manufacturing Processes................3
MFG 16102 Hydraulics & Pneumatics................2
MFG 20103 Advanced Welding.........................3
MFG 20203 GTA Welding..............................3
MFG 22203 Basic Pipe Welding........................3
MFG 23103 Advanced Pipe Welding................3
MFG 24103 Materials & Metallurgy..................3
MFG 27102 OSHA......................................2
PSY 11103 General Psychology........................3
TEC 11704 Technical Mathematics I*................4
TEC 11804 Technical Mathematics II................4
3 hour computer course..............................3
Total required hours for ATS degree...............65

* Placement determined by Compass Test.
To receive the ATS Welding degree, student must achieve a 2.00 overall grade point average in all Manufacturing/technology-related courses and a 2.00 overall grade point average 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 welding 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 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:

- ENG 11103 Composition I* .......................... 3
- MFG 10103 Basic Welding .......................... 3
- MFG 10203 GMAW Processes ....................... 3
- MFG 11102 Blueprint Reading ...................... 2
- MFG 12103 Welding Testing & Inspection .......... 3
- MFG 12403 Manufacturing Processes ................ 3
- MFG 20103 Advanced Welding .................... 3
- MFG 20203 GTAW Processes ........................ 3
- MFG 24103 Materials & Metallurgy .................. 3
- TEC 11704 Technical Mathematics I* ............... 4

* Placement determined by Compass test.

To receive the Welding Certificate, student must achieve a 2.00 overall grade point average in all Manufacturing/technology-related courses and a 2.00 overall grade point average in all coursework.

To view and/or print a copy of the Welding fact sheet, which includes a suggested course sequence; visit the program’s website at www.rio.edu/engineering/Welding.cfm

**WILDLIFE CONSERVATION (23431)**

**School of Mathematics & Natural Sciences**

**College of Arts and Sciences**

Kidd Math/Science Center

740.245.7397 office; 740.245.7172 fax

**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 resources-orientated agency, organization, or company or continue on to graduate school.

**Program Design**

The Rio Wildlife Conservation 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.

Earning the Wildlife Conservation degree can be accomplished in one of two ways: Pursue the full 4-year course requirement as a Rio Student or complete a Hocking College (HC) Associate of Applied Science degree in either Wildlife Management Resources or Fish Management and Aquaculture Science then transfer to Rio as a junior. The Rio Wildlife Conservation degree curriculum addresses theories, issues, and challenges in the context of both basic science and applied management as well as provide hands-on field-orientated instruction.

**Degree Offered**

- Bachelor of Science – Wildlife Conservation

**Learning Outcomes**

The successful student will be able to:

- Explain, using appropriate terminology, concepts of wildlife and fish conservation and management.
- Relate models, theories, and concepts to wildlife and fish conservation and management challenges.
- List and describe basic approaches of wildlife and fish conservation and management challenges.
- Effectively communicate, in oral and written form, environmental and natural resources technical information
- Complete critical reading of original and secondary source material.

**Certifications**

The curriculum for the Wildlife Conservation program is designed to meet the educational requirements to earn Certified Associate Wildlife Biologist (CAWB) status awarded by the Wildlife Society. Elevation to the status of a Certified Wildlife Biologist (CWB) is possible when one obtains at least 5 years of full-time professional experience within a 10-year period. Although not all employers require certification as a condition of employment, both CAWB and CWB certification conveys to employers than an individual has both fundamental educational and ethical standards essential for success as a natural resources professional.

**Degree Requirements**

**Bachelor of Science – Wildlife Conservation (23431)**

First two years:

Option A: Complete at Rio

General Education must include:

- MTH 21404 Introductory Probability & Statistics .. 4
- BIO 12104 Biology 1 ........................................ 4
- BIO 12204 Biology 2 ........................................ 4
- BIO 20704 Ecology ......................................... 4
- BIO 24203 Wildlife Natural History and ID .......... 3
- BIO 25203 Principles & Practices of Wildlife Management ................................................. 4
- BIO 26901 Wildlife Practicum (repeat 3 times) .... 3
- BIO28803 Selected Topics in Biology ................. 3
- CHM 10404 Principles of Chemistry ................. 4
- HPE 24302 Safety and First Aid ......................... 4
Option B: Transfer from Hocking College:
Associate of Applied Science degree in Wildlife Management Resources or Fish Management and Aquaculture Sciences

Remaining General Education required hours* ................................. 71

Hocking College transfer students must have taken HC ENGL 2123 English Composition II or HC ENGL 2225 Technical Writing. Otherwise, they are required to take URG ENG 11203 Composition II.

Additionally, Hocking College transfer students must have taken HC CHM 131 Environmental Chemistry as one of their physical science classes, or they must take URG CHM 10404 Principles of Chemistry or URG CHM 15005 General Chemistry I.

If they have not taken HC BIOS 1120 Botany, URG BIO 28802 Special Topics: Fundamentals of Biology will also be required. If they have not taken HC WLM 2251 Biostatistics for Wildlife Management, URG MTH 21404 Introduction to Probability and Statistics will be required.

Additional 100-200 level classes at Hocking to meet standards for Wildlife Certification ........................................... 0-9

Junior –Senior Course Requirements:
30000-40000 level Required Courses (34 hours minimum)
 NSC 31303 Communication Environ Nat
 Res Info ................................................................. 3
 BIO 31303 Advanced Ornithology ................................ 3
 BIO 32303 Mammalogy ........................................... 3
 BIO 35304 Field Biology & Methodology ............. 4
 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 47103 GIS Applications for Resources
 Management .......................................................... 3
 Minimum of 4 hours taking either:
 BIO 48802-03 Selected Topics in Biology .......... 2-3
 BIO 49902-03 Directed Studies in Biology .......... 2-3

Selected Topics may include:
Aquatic Entomology ............................................. 3
Environmental Ethics ............................................. 2
Herpetology .......................................................... 3
Invasive Species: Biology, Ecology, and Mgmt ......3
Wildlife Diseases ..................................................... 3
Wildlife Law and Organization .......................... 3
Total required hours for degree ................................. 122

* Students completing a Hocking College AAS Degree in Wildlife Management Resources or Fish Management and Aquaculture 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.

Note: Hocking College transfer students must take HC CHM131 Environmental Chemistry as one of their physical science classes.
Undergraduate Course Descriptions
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 sem. hrs.). 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. Lab Fee required. (Fall)

ACC 11403 Principles of Accounting I, (3 sem. hrs.). 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. Lab fee required. (Fall, Spring)

ACC 12403 Principles of Accounting II, (3 sem. hrs.). 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. Lab fee required. Prerequisite: ACC 11403. (Fall, Spring)

ACC 21403 Intermediate Accounting I, (3 sem. hrs.). 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. Lab fee required. Prerequisite: ACC 12403 (Fall)

ACC 22403 Intermediate Accounting II, (3 sem. hrs.). 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. Lab free required. Prerequisite: ACC 21403 (Spring)

ACC 28801-03 Selected Topics in Accounting, (1 to 3 sem. hrs.). Selected topics relevant to accounting. Lab fee required. (On Demand)

ACC 34403 Federal Income Taxation, (3 sem. hrs.). 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. (Spring)

ACC 35403 Management Accounting, (3 sem. hrs.). 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. (Fall)

AHC - Allied Health Careers

AHC 10101 Introduction to Allied Health Professions, (1 sem. hr.). 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 sem. hrs.). This course is designed to provide the general standards of patient care in the clinical practice. Routine and emergency care standards are examined and, the role that the allied health professional plays in patient education is discussed. Two hours lecture. Prerequisite: Student with declared major in Allied Health or Medical Office Assistant. RAD students will have to take RAD 28801 Selected Topics for Patient Care Competencies Skills. Course fee required. (Fall, Spring)

AHC 10301 Computers and Allied Health Professions, (1 sem. hrs.). 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 10302 Electronic Health Records, (2 sem. hrs.). This course will give the students exposure to and hands-on experience with electronic documentation of health records. Students will chart clerical skills, clinical skills, and patient care in an EHR (electronic
health record) system. One hour lecture, two hours lab. Course fee required. (Fall, Spring)

**AHC 10401 Sectional Anatomy** (1 sem. hrs.). This course introduces the human anatomy structures and locations as seen in CT, MRI, and Ultrasound. Course fee required. Prerequisite: BIO 10104 & BIO 10204 with a grade of “C” or higher. (Fall)

**AHC 10403 EKG Technician** (3 sem. hrs.). This course is an introduction to the anatomy and physiology of the cardiac cycle and the electrical system of the heart. The student will learn how to calculate heart rate, identify normal sinus rhythms, and arrhythmias. The student will also learn about the 3, 5, and 12 lead EKG. Additionally, the student will learn how to prepare the patient, apply electrodes, and respond to signs and symptoms of cardiopulmonary compromise. HIPAA regulations and the obtaining of vital signs will be introduced. Course fee required. (On demand)

**AHC 10501 Healthcare Compliance & Ethics** (1 sem. hr.). This course will give the student thorough instruction in various aspects of healthcare compliance, such as false claim laws, governmental and third-party payer guidelines, state and federal regulations, HIPAA, HITECH, Anti-Kickback, and Stark Law. (Fall)

**AHC 13302 Medical Terminology I** (2 sem. hrs.). 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 sem. hrs.). 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 with a grade of “C” or higher. Two hours lecture. Course fee required. (Fall, Spring)

**AHC 20303 ICD Coding** (3 sem. hrs.). This course offers the student an overview of the widely used classification system (International Classification of Diseases) for medical coding, classifying, and identifying patient diseases and procedures in the United States. Medical coding systems transform verbal medical descriptions of patient diseases and procedures into numbers that are communicated electronically. The student will use the most current version of ICD coding that serves all healthcare stakeholders including physicians, hospitals, long-term care and outpatient facilities. Special emphasis is on abstracting ICD codes from source documents. Prerequisites: PHT 12103 and PHT 12203 Applied Science for HRC I & II, AHC 13302 and AHC 14302 Medical Terminology I & II. Course fee required. (Fall)

**AHC 21203 CPT Coding** (3 sem. hrs.). This course offers the student an overview of a coding system developed by the American Medical Association (AMA) to convert widely accepted, uniform descriptions of medical, surgical, and diagnostic services rendered by health care providers into five-digit numeric codes. These codes enable health care providers to communicate both effectively and efficiently with third-party payers about the procedures and services provided to patients. Prerequisites: AHC 20303 ICD Coding, PHT 12103 and PHT 12203 Applied Science for HRC I & II, AHC 13302 and AHC 14302 Medical Terminology I & II. Three hours lecture. (Spring)

**AHC 22203 Healthcare Reimbursement** (3 sem. hrs.). This course will give the student thorough instruction in all aspects of medical insurance, including plan options, payer requirements, state and federal regulations, abstracting of source documents, accurate completion of claims, and coding diagnoses and procedures/services. Prerequisites: AHC 20303 ICD Coding, PHT 12103 and PHT 12203 Applied Science for HRC I & II, AHC 13302 and AHC 14302 Medical Terminology I & II. Three hours lecture. (Fall)

**AHC 28801-03 Selected Topics in Allied Health Professions** (1 to 3 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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, there will be a survey of 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.
Prerequisites: None. Fall/Spring

ART 10403 Two-Dimensional Design (3 sem. hrs.) 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. Prerequisites: None. ART 10403 recommended. (Spring)

ART 12301 Art Portfolio (1 sem. hr.) This course includes the creation of a professional resume/curriculum vitae and image portfolio for visual artists. Students will also develop their concept of what a life in the visual arts entails. Prerequisites: None. (Fall)

ART 12403 Drawing I (3 sem. hrs.) An introduction to the technical and expressive aspects of drawing. Prerequisites: None. (Fall)

ART 15404 Western Art History I (4 sem. hrs.) 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 20104 Raster Graphics (4 sem. hrs.) 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. Prerequisites: None. (Fall)

ART 20204 Vector Graphics (4 sem. hrs.) An introduction to the basics of creating and manipulating vector graphics using Adobe Illustrator and Adobe InDesign. Students will use original and appropriated imagery to create original graphics. Basic principles of art and design will be emphasized, including type, page layout, image/type interaction, etc. Prerequisites: None. (Fall)

ART 20304 Web Graphics (4 sem. hrs.) An introduction to the basics of creating graphics for the internet using Adobe Dreamweaver and Flash. Students will learn to compose and assemble text, graphics, and links to create original web sites and pages. Basic principles of art and design will be emphasized. This is not a programming course, but the course does cover the basics of html and css. Students will purchase server space on a commercial server and publish their coursework. Prerequisites: None. ART 20104 Raster Graphics or knowledge of Adobe Photoshop. (Spring)

ART 21504 Printmaking I (4 sem. hrs.) An introduction to printmaking as an art form. Topics may include but are not limited to Relief, Intaglio, Lithography, Serigraphy, and Photomechanical printing. Prerequisites: None. (Spring)

ART 23201 Exhibits (1 sem. hr.) 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 sem. hrs.) An introduction to the fundamental techniques of working with clay. Wheel throwing, hand-building, clay and glaze chemistry, and firing processes will be included in the course content. Prerequisites: None. (Fall)

ART 24504 Sculpture I (4 sem. hrs.) 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. Prerequisites: None. (Fall)

ART 25404 Western Art History II (4 sem. hrs.) 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 26604 Darkroom Photography I (4 sem. hrs.) 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. Prerequisites: None. (Fall)

ART 26904 Digital Photography (4 sem. hrs.) An introduction to the technical, artistic, and conceptual principals of digital photography. Prerequisites: None. (Spring)

ART 28604 Painting I (4 sem. hrs.) An introduction to the technical, artistic, and conceptual principals of oil painting. Prerequisites: None. (Spring)

ART 28801-04 Selected Topics in Art (1-4 sem. hrs.) 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. Prerequisite: Permission of the instructor. (On Demand)

ART 30104 Junior Design Studio I (4 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.). A continuation of Printmaking I. Students will pursue independent study in a variety of print media, focusing primarily on photomechanical processes. Prerequisites: ART 21504 or permission of instructor. (Spring)

ART 33504 Ceramics II (4 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 and ART 25404 recommended. (Spring)

ART 46604 Darkroom Photography III (4 sem. hrs.). 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 sem. hr.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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)

BIO – Biology

BIO 10104 Principles of Human Anatomy and Physiology I (4 sem. hrs.). 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-hour lecture, two-hour lab. This course is for Allied Health majors. Prerequisite: C or better in High School Biology AND Chemistry or C- or better in BIO11404 AND CHM 10404 (Fall, Spring)

BIO 10204 Principles of Human Anatomy and Physiology II (4 sem. hrs.). 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 for Allied Health majors. Prerequisite: C- or better in BIO 10104. (Nurses: C or better in BIO 10104). (Spring)

BIO 10302 Microbiology for Nurses (2 sem. hrs.). 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. Prerequisite: C- or better in BIO 10104 (Nurses: C or better in BIO 10104). (Spring)

BIO 11004 Plants and People (4 sem. hrs.). This course will present interrelationships of plants and humans from both historical and modern points of view. Fundamentals of plant biology (structure, function, genetics, and evolution) are examined. Also presented will be origins of agriculture and civilization, tropical and temperate food plants, medicinal plants, drug plants, destruction of the environment and its ultimate effect on food plants. Lecture 3 hours, Lab 2 hours. (Fall, Spring, Summer on demand)

BIO 11404 (TM) Principles of Biology (4 sem. hrs.). 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 sem. hrs.). 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-hour lecture, two-hour 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. (Fall, Spring)

BIO 12204 Biology (2 sem. hrs.). 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-hour lecture, two-hour lab. Course fee required. Prerequisites: C- or better in BIO 12104 (Fall, Spring)

BIO 20704 Ecology (4 sem. hrs.). 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. Three-hour lecture, two-hour lab. Course fee required. Prerequisite: C- or better in BIO 12204. (Fall)

BIO 21404 Human Anatomy and Physiology 1 (4 sem. hrs.). 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, peripheral and autonomic nervous systems and endocrinology. Three-hour lecture, two-hour lab. Course fee required. Prerequisite: C- or better in BIO 12204. (Fall)

BIO 22404 Human Anatomy and Physiology 2 (4 sem. hrs.). 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-hour lecture, two-hour lab. Course fee required. Prerequisite: C- or better in BIO 21404. (Spring)

BIO 24203 Wildlife Natural History and Identification (3 sem. hrs.). This course focuses on the natural history, distribution, and identification of vertebrates. The emphasis is on North American species with aging and sexing techniques presented for selected species. Two-hour lecture and two-hour lab. Prerequisites: BIO 12204. (Spring)
BIO 25203 Wildlife Management: Principles and Practices (3 sem. hrs.). This course is an introduction to the principles and practices of managing wildlife. The key aspects examined are the historic use of wildlife in North America, the origins of wildlife management as a discipline, and the basics of wildlife-habitat relationships and management, population dynamics, human-wildlife conflicts, species (both single and multiple) management including consumptive and non-consumptive uses, and key legislation impacting conservation. Two-hour lecture and two-hour lab. Prerequisites: BIO 12204. (Fall)

BIO 26901 Wildlife Practicum (1 sem. hr.). This course requires field or lab “hands-on” data collection and/or analysis or participation in monitoring local flora or fauna or habitat manipulation. Activities may include participating in eco-monitoring projects at designated URG sites or with a local, state, or national conservation-oriented agency or non-governmental organization. Student must maintain a log of activities and complete an exit survey to be conducted by the assigned faculty supervising the practicum. Requires forty (40) hours of field and/or lab effort. Student may repeat this course up to 3 times (for a maximum of 4 credit hours for Wildlife Practicum). Prerequisites: BIO 12104 or permission of instructor and School Chair. (On Demand)

BIO 28801-03 Selected Topics in Biology (1-3 sem. hrs.). 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 29901-03 Directed Studies in Biology (1-3 sem. hrs.). This course requires a student to conduct a focused literature review and/or research project addressing a Biology, Environmental Science or Wildlife Conservation topic. A formal, written summary of work—usually in the form of a peer-reviewed manuscript format, a poster, or formal oral presentation will be required. Prerequisites: BIO 12204 (and permission of instructor and School Chair). (On Demand)

BIO 30304 Microbiology (4 sem. hrs.) This course is a study of the structure, physiology, identification, 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-lecture, two-hour lab. Prerequisite: C- or better in BIO 12204. (Spring)

BIO 31033 Advanced Ornithology (3 sem. hrs.). This course is a study of the classification, evolution, distribution, life histories, and morphological, ecological, and behavioral adaptations of birds. Two-hour lecture, two-hour lab. Prerequisite: C- or better in BIO 20704 or Hocking College Associate Degree in Wildlife Sciences. (Spring)

BIO 31404 Vertebrate Zoology (4 sem. hrs.). The classification, identification, comparative anatomy, and natural history of the vertebrates are considered in this course. Dissection is utilized to study the organs systems of representatives of the classes. Emphasis is given to the identification and natural history of the species common to our region. Three-hour lecture, two-hour lab. Prerequisite: C- or better in BIO 20704. (On Demand)

BIO 32303 Mammalogy (3 sem. hrs.). This course is a study of mammals with an emphasis on diversity, distribution, life history, ecology, and field techniques. Two-hour lecture, two-hour lab. Prerequisite: C- or better in BIO 20704 and or HC WM 156. (Spring)

BIO 32603 Epidemiology (3 sem. hrs.) This course is an introduction to the basic principles and methods of epidemiology with an emphasis on critical thinking, analytic skills, investigative techniques, and application to clinical practice and research. The basic principles of epidemiology will be studied as they apply to public health practice. Three-hour lecture. Prerequisites: C- or better in BIO 20704 and MTH 21404.

BIO 33404 Invertebrate Zoology (4 sem. hrs.). This course is a survey of the major groups of invertebrates with emphasis on taxonomy, structure, reproduction, and evolution. Three-hour lecture, two-hour lab. Prerequisite: C- or better in BIO 20703. (On Demand)

BIO/CHM 34403 Introduction to Biochemistry (3 sem. hrs.). This is an introductory course that covers the structure, function, and reactions of biological macromolecules, including proteins, carbohydrates, lipids, and nucleic acids. Three-hour lecture. Prerequisites: CHM 27303 and BIO 12104. (Fall 2017)

BIO 35304 Field Biology and Methodology (4 sem. hrs.). This course focuses on the various types of terrestrial and ecosystems common to the region with an emphasis on biotic and abiotic components and their relationships Labs focus on the 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-hour lecture, three-hour lab. Prerequisite: C- or better in BIO 20704 or Hocking College Associate Degree in Wildlife or Fish Sciences. (Fall)

BIO 35403 Field Botany (3 sem. hrs.). 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. Prerequisites: C- or better in BIO 20704. Cannot take if have taken BIO 36303. Two-hour lecture, two-hour lab. (On Demand)

BIO 36303 Local Flora (3 sem. hrs.). 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. Two-hour lecture, two-hour lab. Prerequisite: C- or better in BIO 20704 or Hocking College Associate Degree in Wildlife or Fish Sciences. (Fall)

BIO 36404 Genetics (4 sem. hrs.). 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-hour lecture, two-hour lab. Prerequisites: C- or better in BIO 20704 and CHM 15005. (Fall)

**BIO 36804 Advanced Plant Biology** (4 sem. hrs.). This course is an advanced course in plant biology that will thoroughly cover the general principles of plant biology, including structure, function, diversity, reproduction, and evolution of plants. Emphasis will be placed on plant systematics, plant physiology, plant development and anatomy, ecology, and evolution. Prerequisite: C- or better in BIO 20704.

**BIO 37103 Principles of Conservation Genetics** (3 sem. hrs.). 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-hour lecture. Prerequisites: C- or better in HC BIO 12104 and BIO 12204 or equivalent or Hocking College Associate Degree in Wildlife or Fish Sciences. (Spring)

**BIO 37303 Cellular and Molecular Biology** (3 sem. hrs.). This course will provide an overview of cell biology, emphasizing the molecular and genetic basis of cell structure and function and the dynamic nature of cells and their components. The course is intended for majors in biological sciences and will build on concepts introduced in the prerequisite classes. Students will use knowledge of molecules and genetics to explore topics in protein function, cell compartmentalization, signaling, and dynamics. Three-hour lecture. Prerequisite: C- or better in BIO 36404 and CHM 1505S.

**BIO 37504 Comparative Vertebrate Anatomy** (4 sem. hrs.). A study of the similarities of anatomy and phylogenetic relationships of major vertebrate groups. Emphasis is on comparative anatomical structural, functional, and evolutionary relationships within and between major taxa or vertebrates. Laboratories include dissection and study of representative chordate systems with emphasis on the anatomy and evolution of fishes, amphibians, reptiles, birds, and mammals. Three-hour lecture, two-hour lab. Prerequisite: C- or better in BIO 20704.

**BIO 38402 Immunology** (2 sem. hrs.). 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-hour lecture. Prerequisite: C- or better in BIO 20704. (On demand)

**BIO 38503 Environmental Toxicology** (3 sem. hrs.). This course is designed to provide an overview of environmental toxicology, including an examination of the major classes of pollutants, their fate in the environment, their disposition in organisms, and their mechanisms of toxicity. An emphasis will also be placed on the assessment of the toxicity of pollutants in biological and environmental systems and of contemporary problems on human health associated with environmental toxicants. Three-hour lecture. Prerequisites: C- or better in BIO 20704 and CHM 15505.

**BIO 40303 Evolution** (3 sem. hrs.). Evolution is the one unifying theory of modern biology. This course is designed to introduce the history of life on earth and the history of evolutionary theory, the mechanisms that influence change, and the evidences of these mechanisms. The course is meant to be a seminar/discussion course. Three-hour lecture. Prerequisite: C- or better in BIO 36404.

**BIO 41304 Limnology** (4 sem. hrs.). 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 placed 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-hour lecture, two-hour lab. Prerequisite: C- or better in BIO 20704 or Hocking College Associate Degree in Wildlife or Fish Sciences. (Fall)

**BIO 42303 Human-Wildlife Conflicts** (3 sem. hrs.). 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-hour lecture, two-hour lab. Prerequisites: C- or better in BIO 20704 or Hocking College Associate Degree in Wildlife or Fish Sciences. (Fall)

**BIO 43103 Applied Population Biology** (3 sem. hrs.). This course is a study of basic population processes using conceptual and quantitative approaches. The focus will be on ecological attributes and interactions that 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-hour lecture, two-hour lab. Prerequisite MTH 21404 or HC WLM 2251 or similar course or Hocking College Associate Degree in Wildlife or Fish Sciences. (Spring)

**BIO 43404 Parasitology** (4 sem. hrs.). 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-hour lecture, two-hour lab.
Prerequisite: C- or better in BIO 20704 and BIO 21304.
Fall alternate years. (On demand)

**BIO/CHM 44403 Advanced Biochemistry** (3 sem. hrs.)
This is an advanced course that covers the metabolic pathways involving biological macromolecules, including proteins, carbohydrates, lipids, and nucleic acids. Three-hour lecture. Prerequisites: CHM/BIO 34403. (Spring 2018)

**BIO 45303 Conservation Biology** (3 sem. hrs.).
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-hour lecture, two-hour lab. Prerequisites: C- or better in BIO 20704 or Hocking College Associate Degree in Wildlife or Fish Sciences. (Spring)

**BIO 47003 Senior Research** (3 sem. hrs.). Students will either 1) perform an inquiry-based research project that involves lab or field data collection, statistical analysis, interpretation of results and presentation of findings in oral and/or written format or 2) perform an extensive literature research project and producing a paper that includes an overview of the topic and major findings. Prerequisites: Senior standing with a major/minor in Biology, Chemistry, or Environmental Science.

**BIO 47103 GIS Applications for Resource Management** (3 sem. hrs.). 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: None. (Fall)

**BIO 48801-03 Selected Topics in Biology** (1 - 3 sem. hrs.). 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 Conservation. Prerequisites: Junior or senior standing, and permission of instructor and School Chair. (On Demand)

**BIO 49303 Pathophysiology for Healthcare Professionals** (3 sem. hrs.). This course examines the concepts of pathophysiology as they relate to health care.

Students will explore common pathologies they would encounter in real world settings as health care professionals. Case studies will help show them how to use what they learn to deal with every day issues found in health care. Three-hour lecture. Prerequisite: C- or better in BIO 22404 or BIO 10204 or by permission of the instructor. (Fall)

**BIO 49901-03 Directed Studies in Biology** (1 - 3 sem. hrs.). This course is a study of a selected topic in Biology or Wildlife Conservation resulting in the writing of a research paper or similar project. Prerequisite: Permission of instructor and School Chair. (On Demand)

**BM - Business Management**

**BM 10403 Introduction to Business.** (3 sem. hrs.) A general overall view of business activities, including management, marketing, finance, accounting, money, banking, credit, personal finance and investments, business ethics, social responsibility, human resource management, small business, and entrepreneurship. Lab fee required. (Fall, Spring)

**BM 20403 Principles of Management.** (3 sem. hrs.) 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)

**BM 27403 Introduction to Business Law.** (3 sem. hrs.). 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, 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)

**BM 28801-03 Selected Topics in Business Management.** (1 - 3 sem. hrs.). Selected topics relevant to business management. Lab fee required. (On Demand)

**BM 28901 Business Portfolio.** (1 sem. hr.). Examines career opportunities and professional skills and personal attributes required for a successful career in Accounting, Business Administration, Economics, and Information Technology. Topics include resumes, cover letters, professionalism, researching companies, and interviews. Lab fee required. (Fall, Spring)

**BM 31403 Human Resource Management.** (3 sem. hrs.). 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, Spring)

BM 32403 Organizational Behavior. (3 sem. hrs.) This course examines 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: BM 20403. (Fall, Spring)

BM 42403 Organizational Theory. (3 sem. hrs.) This course examines 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. Prerequisite: BM 20403. (Fall, Spring)

BM 44403 International Business. (3 sem. hrs.) 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.. (Fall, Spring)

BM 24503/44503 Project Management. (3 sem. hrs.). 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. (Fall, Spring)

BM 46403 Operations Management. (3 sem. hrs.). This course examines planning, organizing, leading, and controlling the production of goods and services. Topics include: organizational structures and environments, quality assurance, production systems, project management, inventory management, and computer and quantitative models used in formulating managerial problems. Prerequisite: BM 20403. (Fall, Spring)

BM 47903 Strategic Management. (3 sem. hrs.). 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 an online computer simulation competition to provide an integration of principles and techniques learned in Accounting, Economics, Finance, Marketing, and Management. Prerequisites: Senior standing and major in the School of Business, all required 200 and 300 level Business courses. Fall/Spring

BM 49102 Internship/Experience in Business Management. (2 sem. hrs.). 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)

CHM - Chemistry

CHM 10404 (TM) Principles of Chemistry (4 sem. hrs.). A survey course with emphases on the aspects of general chemistry and the relevancy of chemistry in society. The laboratory work is intended to illustrate and supplement the practical considerations. This course is designed for non-science majors and does not fulfill any requirements for the BS or AS in Chemistry or the Minor in Chemistry. Three-hour lecture, three-hour lab. Course fee required. Prerequisite: MTH 11203 (C or better), TEC 11704 (C or better), MTH 21403 or placement into higher-level math course via placement exam score. ENG 10503 (C- or better) or placement into higher-level English course via placement exam score. (Fall, Spring, Summer)

CHM 15005 (TAG) General Chemistry I (5 sem. hrs.). This is an intensive course in fundamental atomic and molecular structure, chemical bonding, stoichiometry, states of matter, classification of elements, thermochmistry, 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-hour lecture, three-hour lab. Course fee required. Prerequisites: MTH 14505 (C or better) or MTH 13404 (C or better). MTH 14505 or MTH 13404 may be taken concurrently with CHM 15005. ENG 10503 (C- or better) or placement into higher-level English course via placement exam score. (Fall)

CHM 1505 (TAG) General Chemistry II (5 sem. hrs.). 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-hour lecture, three-hour lab. Course fee required. Prerequisite: CHM 15005 (C or better); MTH 14505 (C or better) or MTH 13404 (C or better). (Spring)

CHM 26202 (TAG) Organic Chemistry Laboratory I (2 sem. hrs.). 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-hour lab. Course fee required. Prerequisite: CHM 15505. To be taken concurrently with CHM 26303. (Fall)

CHM 26303 (TAG) Organic Chemistry Theory I (3 sem. hrs.). 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, alkenes, alkynes, alkyl halides, alcohols, and ethers; stereochemistry; NMR spectroscopy; properties and mechanisms of substitution, elimination, addition, radical, and oxidation-reduction reactions. Three-hour lecture. Prerequisite: CHM 15505. Fall

CHM 27202 (TAG) Organic Chemistry Laboratory II (2 sem. hrs.). 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. In addition, a multi-step synthesis is performed and the products are analyzed. Six-hour 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 sem. hrs.). 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. In addition, the properties and mechanisms of electrophilic aromatic substitutions, and nucleophilic additions and substitutions involving carbonyl and acyl compounds are discussed. Three-hour lecture. Prerequisites: CHM 26202 and CHM 26303. (Spring)

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. Prerequisite: Freshman or Sophomore standing, sponsorship by an instructor, and approval of the School Chair. (On Demand)

CHM 30302 Integrated Chemistry Laboratory I (2 sem. hrs.). This is a laboratory course integrating the laboratory fundamentals of Physical Chemistry, Inorganic Chemistry, Instrumental Analysis, and Biochemistry. Six-hour lab. Prerequisites: CHM 25404, CHM 27202, CHM 27303, PHY 18505; CHM 25404 can be taken concurrently. (Fall)

CHM 31202 Integrated Chemistry Laboratory II (2 sem. hrs.). 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-hour lab. Prerequisites: CHM 30302. (Spring)

CHM 32303 Inorganic Chemistry (3 sem. hrs.). 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-hour lecture. Prerequisites: CHM 27303. (Spring 2019)

CHM 33105 Analytical Chemistry (5 sem. hrs.). This is a survey course addressing fundamental principles of chemical analysis. Topics include the analytical process, concentration units and conversions, experimental error, statistical treatment of data, calibration methods, and an overview of spectroscopic and chromatographic instrumental methods. The laboratory component emphasizes the statistical treatment of data generated through titrimetric, gravimetric, and instrumental methods. Four-hour lecture, three-hour lab. Prerequisites: CHM 27202 and CHM 27303. (Fall 2018)

CHM/BIO 34403 Introduction to Biochemistry (3 sem. hrs.). This is an introductory course that covers the structure, function, and reactions of biological macromolecules, including proteins, carbohydrates, lipids, and nucleic acids. Three-hour lecture. Prerequisites: CHM 27303 and BIO 12104. (Fall 2018)

CHM 40303 Physical Chemistry Theory I (3 sem. hrs.). The fundamental principles of Physical Chemistry are studied with emphasis on gas laws, thermodynamics, chemical equilibrium, electrochemistry, quantum mechanics, and atomic structure. Three-hour lecture. Prerequisites: CHM 27303 and MTH 15204, and PHY 18505. (Fall 2017)

CHM 41303 Physical Chemistry Theory II (3 sem. hrs.). A continuation of CHM 40303. Topics include: molecular structure, molecular symmetry, spectroscopy, statistical thermodynamics, molecules in motion, and chemical kinetics. Three-hour lecture. Prerequisite: CHM 40303. (Spring 2018)

CHM/BIO 44403 Advanced Biochemistry (3 sem. hrs.). This is an advanced course that covers the metabolic pathways involving biological macromolecules, including proteins, carbohydrates, lipids, and nucleic acids. Three-hour lecture. Prerequisites: CHM/BIO 34403. (Spring 2018)

CHM 45303 Environmental Chemistry (3 sem. hrs.). The chemistry and quantitative aspects of environmentally important chemical cycles will be studied. Cycles within the atmospheric, hydrospheric, 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-hour lecture.

**Prerequisites:** CHM 27303. On Demand

**CHM 46303 Polymer Chemistry** (3 sem. hrs.). 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-hour lecture.

**Com:** Prerequisites: CHM 27303. (On Demand)

**CHM 47001-04 Senior Research I** (1 - 4 sem. hrs.). This course is the beginning of an independent research project, with faculty guidance, of a selected topic in Chemistry, beginning with a comprehensive literature search. At the end of the semester, the progress of the research project will be reported either in oral or written format. The research project will be completed in Senior Research II. Prerequisite: CHM 31202 and sponsorship by an instructor. (Fall)

**CHM 47502-04 Senior Research II** (2 - 4 sem. hrs.). This course is the conclusion of an independent research project, with faculty guidance, of a selected topic in chemistry that was begun in Senior Research I. The results of the research project will be presented in the form of an oral or poster presentation, preferentially at a scientific meeting or conference. Additionally, the findings from the literature review and following research activities will be reported in the form of a comprehensive thesis.

**Prerequisite:** CHM 47001-04 and sponsorship by an instructor. (Spring)

**CHM 48801-03 Selected Topics in Chemistry** (1 - 3 sem. hrs.). 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 - 5 sem. hrs.). 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 21102 Oral Interpretation** (2 sem. hrs.). Theory and practice in interpretation of oral reading of speeches, prose, poetry, and drama. Course fee required. (Spring)

**COM 22103 Small Group Communication** (3 sem. hrs.). The study of small group communication, cooperative thinking, recognition, definition of problems, critical analysis, examination of possible solutions, and leadership and participation. (Spring)

**COM 22204 Argumentation and Debate** (4 sem. hrs.). 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 sem. hrs.). 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 - 3 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). A critical study of speakers whose effectiveness or lack of it influenced cultural, social, and political events in American life. (Fall)

**COM 42103 Communication Law** (3 sem. hrs.). 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 sem. hrs.). 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 - 3 sem. hrs.). 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 - 3 sem. hrs.). 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 is required. Fall/Spring

CS 20104 Computer Programming I (4 sem. hrs.). 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-hour lecture, two-hour lab. Course fee required. Prerequisite: MTH 11403 Intermediate Algebra. (Fall)

CS 20204 Computer Programming II (4 sem. hrs.). 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-hour lecture, two-hour lab. Course fee required. Prerequisite: CS 20104. Spring

CS 21503 Introduction to Database Systems. (3 sem. hrs.). 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-hour lecture, two-hour lab. Course fee required. Prerequisite: CS 20104. (Fall)

CS 22003 Data Structures (3 sem. hrs.). 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-hour lecture. Prerequisites: CS 20204 and MTH 14505. (Fall)

CS 23303 Visual Basic (3 sem. hrs.). 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 sem. hrs.). 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 22003 or permission from the instructor. Dual-listed as CS 44303. (Spring)

CS 28801-03 Selected Topics in Computer Science (1-3 sem. hrs.). 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 29101-03 Internship (1-3 sem. hrs.). 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 sem. hrs.). 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-hour lecture. Prerequisites: CS 22003. (Spring)

CS 32003 Operating Systems (3 sem. hrs.). This course covers I/O and interrupt structures, system structure, memory management, instruction sets, and microprogramming. Prerequisites: CS 22003. (Fall)

CS 33003 Cloud Computing (3 sem. hrs.). Cloud computing business model, technologies, and applications. The course includes advanced topics in the deployment of cloud computing and hands-on labs with cloud services, such as Azure, AWS, and BlueMix. Prerequisite: CS 22003. (Spring)

CS 33403 Web Programming & Development (3 sem. hrs.). 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: CS 20204. (Spring)

CS 34103 Computer Algorithms (3 sem. hrs.). This course focuses on algorithm design, complexity analysis, and optimization. Students learn how to analyze algorithm performance mathematically in addition they learn a large variety of algorithms. In this course, students study algorithms with a variety of design strategies including iterative, divide-and-conquer, dynamic programming, and greedy algorithms Prerequisites: CS 22003 and MTH 25403 (On Demand)

CS 35103 Theory of Computation (3 sem. hrs.). This course introduces students to the concepts of languages, automata, computability theory, and complexity theory. Topics covered include regular languages, context-free languages, Turing machines, and parsing. Prerequisites: CS 22003 and MTH 25403. (On Demand)

CS 41103 Computer Architecture (3 sem. hrs.). This course is an exploration of various modules of the computer architecture and how they interact. In particular, this course covers logic circuits and Boolean algebra, microprocessors, memory organization, and internal representation of data. Assembly language programming will also be introduced and used for programming projects. Three-hour lecture. Prerequisite: CS 20203. (Spring)

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 database 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 CS20204. On Demand

CS 42503 Mobile Application Development (3 sem. hrs.). This course provides an introduction to mobile computing and mobile application development. The course introduces mobile application frameworks such as iOS and Android framework and their perspective development environments. User interface design will be covered. The course will also discuss design patterns for mobile computing such as Model-View-Controller. Students will develop complete mobile applications. Prerequisites: CS 22003. (On Demand)

CS 43503 Network Security Programming (3 sem. hrs.). This course teaches network security concepts through programming. The course gives students an opportunity to write code to both attack and defend against cyber-attacks. Students will learn secure coding techniques that prevent common exploits on a web server. Cryptography’s limitations will be explored through programming exercises to encrypt and decrypt messages. Additionally, the course will touch upon ethical considerations such as privacy and white-hat security. Prerequisites: CS 22003. (On Demand)

CS 44503 Big Data Systems (3 sem. hrs.). The course will focus on data mining and machine learning algorithms for analyzing very large amounts of data. Map Reduce and No SQL system will be used as tools/standards for creating parallel algorithms that can process very large amounts of data. Storage, retrieval, analysis, and knowledge discovery using Big Data has made significant inroads in several domains in industry, research, and academia. In this course, we will look at the dominant software systems and algorithms for coping with Big Data. Topics covered include scalable computing models large-scale, non-traditional data storage frameworks including graph, key-value, and column-family storage systems; data stream analysis; scalable prediction models and in-memory storage systems. Prerequisite: CS 22003. (Spring)

CS 24303/44303 Software Design and Development (3 sem. hrs.). 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 2104 or permission from the instructor. Duel Listed as CS 24303. (Spring)

CS 46403 Advanced Communication and Networking (3 sem. hrs.). 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-hour lecture. Prerequisites: CS 22003. (On Demand)

CS 48801-03 Selected Topics in Computer Science (1-3 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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-hour lecture. Course fee required. (Fall)

DMS 21103 Abdominal Sonography I (3 sem. hrs.). 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. Three-hour lecture. Course fee required. (Fall)

DMS 21203 Gynecological Sonography (3 sem. hrs.). 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-hour lecture.

DMS 21301 Seminar I (1 sem. hr.). 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 sem. hrs.) 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 sem. hrs.). 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-hour lecture. Course fee required. (Spring)

DMS 22103 Abdominal Sonography II (3 sem. hrs.). 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-hour lecture. (Spring)

DMS 22203 Obstetrical Sonography (3 sem. hrs.). 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. Three-hour lecture. (Spring)

DMS 22301 Seminar II (1 sem. hr.). 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 sem. hrs.). 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 23301 Cardiovascular Seminar I (1 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hr.). 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 sem. hrs.). 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 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-hour lecture. (Fall)

DMS 24301 Cardiovascular Seminar II (1 sem. hr.). 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 sem. hrs.). 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 sem. hr.) 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 25003 Echocardiography II (3 sem. hrs.) 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. Three-hour lecture. (Spring)

DMS 25503 Cardiovascular Practicum II (3 sem. hrs.). 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 sem. hrs.) 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 Transesophageal 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-hour lecture. (Summer)

DMS 26504 Cardiovascular Practicum III (4 sem. hrs.) 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 28003 Vascular Sonography I (3 sem. hrs.) 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. Three-hour lecture. (Fall)

DMS 28801-03 Selected Topics in Diagnostic Medical Sonography. (1-3 sem. hrs.) 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 29903 Vascular Sonography II (3 sem. hrs.) 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 (1-3 sem. hrs.). 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 sem. hr.) 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 sem. hrs.) 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 Transesophageal 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-hour lecture. (Fall)

**DMS 34301 Cardiovascular Seminar II** (1 sem. hrs.) 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 sem. hrs.). 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 sem. hr.) 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 35003 Echocardiography II** (3 sem. hrs.) 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 34003. Three-hour lecture. (Spring)

**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 36001 Pediatric Echocardiography** (2 sem. hrs.) 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 Transesophageal 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 35004. One-hour lecture. (Summer)

**DMS 36504 Cardiovascular Practicum III** (4 sem. hrs.) 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 38003 Vascular Sonography I** (3 sem. hrs.) 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. Three-hour lecture. (Fall)

**DMS 39003 Vascular Sonography II** (3 sem. hrs.) 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 sem. hrs.). 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-hour lecture. (Fall)
DMS 41103 Abdominal Sonography I (3 sem. hrs.) 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. Three-hour lecture. (Fall)

DMS 41203 Gynecological Sonography (3 sem. hrs.). 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-hour lecture. (Fall)

DMS 41301 Seminar I (1 sem. hrs.). 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 the presentations. Prerequisite: completion of the Cardiovascular DMS program or equivalent. One-hour lecture. (Fall)

DMS 41503 General Sonography Practicum I (3 sem. hrs.). 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 42003 Physics and Instrumentation II (2 sem. hrs.). 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-hour lecture. (Spring)

DMS 42103 Abdominal Sonography II (3 sem. hrs.). 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-hour lecture. (Spring)

DMS 42203 Obstetrical Sonography (3 sem. hrs.). 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. Three-hour lecture. (Spring)

DMS 42301 Seminar II (1 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hr.). 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 sem. hr.). 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. (1-3 sem. hrs.). 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 (1-3 sem. hrs.). 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 sem. hrs.). 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
EDU 12503 Adolescent to Young Adult Content Area Reading for Career Technical. (3 sem. hrs.) 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 sem. hrs.) A pre-service course designed to prepare novice teachers for entry into the teaching profession. Includes study of the principles of learning, teaching, and professional roles expected of teachers. Course fee required. (Fall)

EDU 20203 Infant, Child & Adolescent Development (Prenatal-YA) ECE/ISK-12/ECSE (3 sem. hrs.). Basic concepts of child development, similarities and differences among exceptionalities, appropriate instructional practices, and impact of language acquisition on development will be explored in this three-hour class. During a field experience project, teacher candidates will recognize and document at least ten examples of development connecting class discussions with what they see in learning environments. Overarching professional preparation standards explored in this class include: Knowing and understanding young children’s characteristics and needs (NAEYC); Knowing and understanding similarities and differences among individuals with exceptionalities (CEC-ISCI); Knowing and understanding typical and atypical human growth and development (CEC-ISCI); Knowing and understanding the impact of child’s abilities, needs, and characteristics on development and learning (CEC-ECSE). A fifteen-hour (15) field experience is required for this course.

EDU 20303 Learning Environments (P-12) ECE/ISK-12/ECSE (3 sem. hrs.). Teacher candidates will investigate the demands of a wide variety of learning environments. The focus of this three-hour class will be collaboratively creating and managing a developmentally appropriate, healthy, physically and emotionally safe learning environment for all individuals. In addition, overarching teacher preparation knowledge standards explored in this class include the principles of normalization and least restrictive environment, retaining and appreciating each other’s language and culture, utilizing technology to manage the teaching and learning environment, grouping for learning success, and strategies for crisis prevention and intervention. Candidates will learn standards-based skills to establish consistent routines, activities, and positive behavior supports that promote independent functioning for all children, including those with disabilities. Students will also learn how to provide a stimulus-rich indoor and outdoor environment that employs materials, media, and adaptive and assistive technology, responsive to individual differences. The development of collaborative problem-solving and conflict resolution skills necessary to model and teach them to young learners is also emphasized. A 10-hour field experience-based project will be required. This experience will focus on the positive impact of differentiation, the principles of Universal Design for Learning (UDL), and co-teaching on the learning environment.

EDU 20401 Integrated Classroom Management & Learning Environment (concurrent with EDU 20403) (1 sem. hrs.). 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 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) Continuation of the field-based experiences begun in EDU 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 sem. hrs.) 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 twenty (20) hours in the middle grade setting is required. Course fee required. (Fall)

**EDU 22403 Educating the Exceptional Learner.** (3 sem. hrs.) 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 fifteen-hour (15) field experience is required. Prerequisite: Second Year Rank. (Fall, Spring)

**EDU 22603 Content Area Reading & Intervention ECE/ISK-12/ECSE** (3 sem. hrs.) 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 all students in exploring reading across the curriculum. Emphasis is placed on the child’s construction of meaning through prior knowledge, written language, and the various reading contexts. Reading, writing, listening, and speaking are explored through evidence and research based strategies. Diversity of students and culture are explored with a rich variety of cultural literature for children (ages 3-gr. 12). 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. The practices of co-teaching, UDL, differentiation, and data based decision-making will be key components of the course. A 15-hour field experience is required in this course. Prerequisite: EDU 20403

**EDU 22703 Science, Health, Nutrition Methods & Intervention ECE/ISK-12/ECSE** (3 sem. hrs.) The course focuses on the teaching of modern/contemporary science, health and nutrition for children from age 3 to grade 12 with emphasis on learning objectives, curriculum, materials, methods of teaching, and evaluation/assessment. Development and applications of the National Science Standards (NRC) and the Ohio Academic Content Standards and Early Learning Standards as they relate to the early childhood and K-12 levels will be investigated. Multiple teaching methods and intervention techniques for working with students with diverse needs will be examined. Exploration of instructional expectations for students and their differences in developmental levels, science backgrounds, and scientific potential will be conducted. Utilizing technology in the planning and teaching of science will also be addressed in this course. Students will study and apply the three dimensions of the Next Generation Science Teaching Standards from the NRC framework: (a) practices, (b) crosscutting concepts, and (c) disciplinary core ideas. A 15-hour field experience is required.

**EDU 23303 Family, School & Community Collaboration ECE/ISK-12/ECSE** (3 sem. hrs.) This course is designed to provide pre-service teachers knowledge and skills necessary to communicate and collaborate with parents in school and community settings to facilitate the development, education, and socialization of students with and without disabilities from early childhood through grade 12. Students will develop knowledge of family systems theory, the impact of disabilities upon the life of the child and family members, family legal rights, structure of the family, history of the family, family coping strategies, and the impact of culture, the environmental milieu and cultural and linguistic diversity on development, learning, and behavior. Students also identify sources of services, resources, networking, and organizations that assist families of children and also persons with disabilities such as the Council for Exceptional Children (CEC) and a variety of additional national, state, and local agencies and organizations. In addition to the focus on interactions with families, this course also allows teacher candidates to develop critical skills needed to collaborate with other education professionals to assess performance, plan instruction, monitor progress, provide interventions, solve problems, create Individualized Education Programs (IEPs), and provide all
students with instructional and behavioral supports that will allow them to be successful learners. As part of a project-based field experience, teacher candidates must interview the parent(s) of a child with a disability, and the child (if appropriate). The information gathered is used to write a Family Case Study Report and a Family Action Plan. A project-based field experience is required for this course.

**EDU 23503 Content Area Reading for Middle Childhood.** (3 sem. hrs.) 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 (15) field experience in a partnership school is required for this course. Course fee required. (Fall, Spring)

**EDU 24002 Foundations of Learning and Teaching.** (2 sem. hrs.) 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. Lab fee required. (Summer)

**EDU 24101 Assessment of Learning and Teaching.** (1 sem. hrs.) 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. Lab fee required. (Summer)

**EDU 24603 Social Studies Methods & Intervention ECE/ISK-12/ECSE** (3 sem. hrs.) This course examines various components involved in developing and implementing an effective social studies program for PK through Grade 12 students. Teacher candidates learn to apply evidence-based instructional and intervention strategies within the context of social studies content included in the Ohio Early Learning and Development Standards and the Ohio Academic Learning Standards. Co-planning and co-teaching lessons within a unit plan is a required element of the field experience component of this course. Integration of instructional technology and techniques relevant to all learners will be emphasized. Students learn to select appropriate instructional methods and design activities to create an active learning environment that engages and supports a diverse learning population. Educator preparation knowledge and skills identified in the Ohio Standards for the Teaching Profession, the National Association for the Education of Young Children (NAEYC) Standards for Initial Early Childhood Professionals, and the Council for Exceptional Children (CEC) Initial Educator Standards provide the foundation for course learning objectives. A 15-hour field experience is required.

**EDU 25303 Professional Practices ECE/ISK-12/ECSE** (3 sem. hrs.) Throughout the semester students will study the legal history, provisions, rights, current research, and issues concerning parents, teachers, and other school and community professionals in placement, medication, orientation and gender biases and other standards and policies of the model for students with exceptional needs while maintaining and promoting a high level of competency and integrity in professional practices. Students will also study federal, state, and local laws, procedures, policies, and standards related to the assessment eligibility and placement of students into special education programs.

**EDU 25503 Assessment in Education ECE/ISK-12/ECSE** (3 sem. hrs.) Throughout the semester students will learn to use formal, informal, and authentic assessment techniques to collect a wide variety of student performance data typically used to inform instructional planning, assess student learning, adjust instruction, provide interventions, and monitor on-going student progress. Students will be introduced to the processes and procedures related to evaluation for special education eligibility. Candidates will also learn to administer standardized achievement and diagnostic tests to individual students and also to develop informal assessment instruments and materials. Candidates will be introduced to formal assessment terminology as well as the appropriate uses and limitations of standardized group and individualized diagnostic tests. Instruction will be given on how to interpret, display, report, and explain assessment data to parents, students, colleagues, and other professionals. A field project is required for this course.

**EDU 26102 Observation and Visitation I (yr. 2).** (2 sem. hrs.) 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 26201 Observation and Visitation II (yr. 2).** (1 sem. hr.) 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 are 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 Association for Middle Level Education. 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-hour (15) field experience is required for this course. Course fee required. (Fall)

EDU 26501 Middle Childhood Seminar I (1 sem. hr.) In this course, the teacher candidate will become familiar with the Association for Middle Level Education (AMLE) 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. (Fall, Summer)

EDU 27002 Curriculum Alignment (CT). (2 sem. hrs.) 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 sem. hrs.) Explores interface of career-technical education practitioners with business-industry and government to form mutually productive partnerships in technology transfer. Lab fee required. (Fall)

EDU 27702 Diversity of Learners. (2 sem. hrs.) 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 Leadership. (3 sem. hrs.) 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 28302 Early Childhood Development Portfolio. (2 sem. hrs.) 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 (2 sem. hrs.) 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. (1 sem. hr.) This course will prepare novice teachers for their professional assessment. The final composition of the portfolio will be a major product of the course. Course fee required. (Fall)

EDU 28801-03 Selected Topics in Education. (1-3 sem. hrs.) A study of topics not included in the regular curriculum offerings. A group of students, the instructor, and School Chair may select the field of study. Course fee required. (On Demand)

EDU 29403 Early Childhood Seminar. (3 sem. hrs.) 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). (1-3 sem. hrs.) 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 30303 Multicultural Relations. (3 sem. hrs.) 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)

EDU 31503 Phonics for ECE/ISK-12/ECSE (3 sem. hrs.) This course was designed to cover all phonics requirements established by the Ohio Department of Education as they relate to IS/MC needs. Upon completing the course teacher candidates will be knowledgeable about the phonemic and morphemic systems of language as well as the graphophonemic, syntactic, and semantic cueing systems. This information will be understood as it relates to the age appropriate language processes of reading, writing, talking, and viewing/listening. Candidates will gain an historical perspective on the teaching of phonics through an overview of learning and reading theory. The role of language acquisition, language deficiencies/delays, culture, and dialect differences as they relate to phonics will be studied, as well as the role of phonics in spelling, word recognition, and decoding. Diverse methods for teaching sound/symbol relationships, word recognition, vocabulary, syntax, and comprehension for early childhood (including appropriate use of technology) will be taught to and practiced by all teacher candidates. A supervised 15-hour field experience in an IS/MC setting 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.

EDU 31603 Reading Methods for ECE/ISK-12/ECSE (3 sem. hrs.) This course focuses upon 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. The focus will be on teaching children to consider themselves to be readers and writers from the time they can listen to a story or hold a pencil. Comprehension strategies such as predicting & confirming, retellings, language experience activities, and literature circles and literature response activities will be tied in with age appropriate experiences for the authoring process, literature appreciation, and authentic oral and silent reading practices. Appropriate use of authentic assessment techniques, evidence-based instructional and intervention strategies, language/literacy immersion, multicultural literature, techniques for teaching to the multiple intelligences and the use of research and technology in the teaching of reading will help teacher candidates learn to teach to the individual. A supervised 15-hour field experience in a setting will include activities of 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. Three evidence-based instructional strategies including (a) differentiation, (b) data-driven instruction, and (c) Universal Design for Learning (UDL) will be implemented within the field experience.

EDU 32203 Constructivist Practices. (3 sem. hrs.) 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 sem. hrs.) 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 lifelong learners, using communication strategies to both gather and share information. A thirty-hour (30) 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. (Fall)

EDU 33203 Phonics for Middle Childhood (concurrent with EDU 33403). (3 sem. hrs.) 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 fifteen-hour (15) field experience in a middle 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 developing literacy. Prerequisites: Admission to Teacher Education. (Spring)
EDU 33302 Integrating Educational Technology into the Curriculum (concurrent with EDU 39103). (2 sem. hrs.) 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 candidates will apply technology to facilitate a variety of effective assessment and evaluation strategies. (Fall, Spring)

EDU 33403 Reading Methods for Middle Childhood (concurrent with EDU 33203). (3 sem. hrs.) 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 fifteen-hour (15) 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. (Spring)

EDU 34103 Behavior Management for Mild/Moderate Educational Needs. (3 sem. hrs.) 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 sem. hrs.) 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 thirty-hour (30) field experience in a high school intervention specialist’s “classroom” is required. Prerequisites: Admission to Teacher Education. (Spring)

EDU 34503 Classroom Management & Behavior Intervention ECE/ISK-12/ECSE (3 sem. hrs.) 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. 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 led in discussion of prevention of behavior problems by developing skills in providing positive behavior interventions and supports for all students. Observation techniques for collecting behavioral data necessary to conduct a Functional Behavior Assessment (FBA) are taught. Candidates also learn skills needed to develop a Behavior Intervention Plan (BIP) based on explicit instruction in and positive reinforcement of socially appropriate replacement behaviors. This course provides teachers with strategies to effectively manage a variety of education environments with behavior intervention skills and applied behavior analysis techniques. A project-based field experience is required.

EDU 35403 Science for Elementary/Middle School Teachers (3 sem. hrs.) This course is designed for teacher candidates seeking to teach young adolescents in fourth and fifth grade. The course will emphasize teaching and lesson planning in physical science. The teacher candidates will explore science concepts that are part of daily life and learn how to incorporate observation, discourse, and experimentation to increase understanding of physical science of students at the fourth and fifth grade levels. They will investigate topics using hands-on activities, online resources, readings, and other multimedia materials. This course is for Early Childhood candidates seeking the Early Childhood Generalist Endorsement. Prerequisites: EDU 22303 or EDU 23303. (Summer)

EDU 35503 Assessment in Education ECE/ISK-12/ECSE (3 sem. hrs.) Throughout the semester students will learn to use formal, informal, and authentic assessment techniques to collect a wide variety of student performance data typically used to inform instructional planning, assess student learning, adjust instruction, provide interventions, and monitor on-going student progress. Students will be introduced to the processes and procedures related to evaluation for special education eligibility. Candidates will also learn to administer standardized achievement and diagnostic tests to individual students, and also to develop informal assessment instruments and materials. Candidates will be introduced to formal assessment terminology as well as the appropriate uses and limitations of standardized group and individualized diagnostic tests. Instruction will be given on how to interpret, display, report, and explain assessment data to parents, students, colleagues, and other professionals.

EDU 36602 Mathematics Process Standards for Educators. (2 sem. hrs.) Participants will examine the structure and applications of the NCTM Principles and Standards for School Mathematics and the Common Core State Standards for Mathematics as they relate to fourth and fifth grades. Multiple examples of teaching strategies will be presented to assist candidates in meeting the needs of diverse learners and providing appropriate intervention techniques. Participants will also examine the mathematical expectations for students and instruction at the fourth and fifth grade levels while learning to recognize the differences in student developmental levels and experiences. Participants will also gain skill in the use of technology for planning as well as instructional purposes. This course is for Early Childhood candidates seeking the Early Childhood Generalist Endorsement.

EDU 36603 Special Education Programming ECE/ECSE (3 sem. hrs.) Teacher candidates will learn to select and develop age appropriate, formal, and informal assessment strategies and
instruments to collect student information. Teacher candidates will also learn to use the data collected to develop Individualized Education Programs (IEP) and provide specially designed instruction and identify appropriate instructional and assessment accommodations for student success in grade level general education courses that reflect a strong knowledge base of developmentally appropriate, evidence-based strategies and techniques that may be used in various delivery models. Teacher candidates will also focus on the skills required to develop lessons and units for general education settings (Age 3-Grade 3) based on the principles of Universal Design for Learning (UDL). Transitions from pre-school special education programming to kindergarten, as well as transitions from birth-age 3 special education programs to school-age general education and special education programs are highlighted in this course. A 15-hour field experience related to IEP development, Authentic Differentiation, and UDL in an early childhood setting is required. Prerequisites: EDU 22403 and EDU 25503.

EDU 36703 Special Education Programming

**ECE/ISK-12** (3 sem. hrs.) Teacher candidates will learn to select and develop age-appropriate, formal, and informal assessment strategies and instruments to collect student information. Teacher candidates will also learn to use the data collected to develop Individualized Education Programs (IEP) and provide specially designed instruction and identify appropriate instructional and assessment accommodations for student success in grade level general education courses that reflect a strong knowledge base of developmentally appropriate, evidence-based strategies and techniques that may be used in various delivery models. Teacher candidates will also focus on the skills required to develop lessons and units for general education settings (K-12) based on the principles of Universal Design for Learning (UDL). Transitions from pre-school special education programming to kindergarten, as well as transitions from high school to postsecondary education, employment, and independent community living are highlighted in this course. A field experience project related to K-12 IEP development, Authentic Differentiation, and UDL is required. Prerequisites: EDU 22403 and EDU 25503.

EDU 37503 Middle Childhood Integrated Language Arts Methods. (3 sem. hrs.) 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 Association for Middle Level Education (AMLE). 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 (15) field experience is required for this course. (Spring)

EDU 39103 Junior Field Experience. (3 sem. hrs.) (concurrent with EDU 33302). During this supervised field experience, the teacher candidate will demonstrate knowledge of effective verbal and nonverbal, communications for 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-hour (90) field experience is required for this course. Instructor permission only. Fall/Spring

EDU 41403 Educational Psychology. (3 sem. hrs.) 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 sem. hrs.) Instructional objectives, teaching strategies, evaluation, and media instruction in the visual arts for age three through age 21. A twenty-hour (20) field experience is required for this course. This experience will be supervised by the instructor of the course. (Fall)

EDU 41603 Multi-Age Health Methods Ages 3 – Grade 9. (3 sem. hrs.) This course is a study of various curricular approaches to health education for children ages 3 through grade 9. The course includes formulation of objectives for various programs, techniques for writing lesson and unit plans, development and presentation of aids, styles of instruction, and assessment strategies. A twenty-hour (20) field experience is required for this course. (Fall)

EDU 41703 Multi-Age Health Methods Grades 7 – Age 21. (3 sem. hrs.) This course is a study of various curricular approaches
to health education for students in grade 7 through age 21.
The course includes formulation of objectives for various
programs, techniques for writing unit and lesson plans,
development and presentation of aids, styles of instruction,
and assessment strategies. A twenty-hour (20) field
experience is required for this course. (Spring)

**EDU 41803 Physical Education Teaching Methods:
Ages 3 - Grade 9.** (3 sem. hrs.) 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 (20) field
experience is required for this course. (Fall)

**EDU 41903 Physical Education Teaching Methods:
Grade 7 - Age 21.** (3 sem. hrs.) This course involves a
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 sem.
hrs.) Instructional objectives, teaching strategies,
evaluation, and media instruction in the visual arts for age
3 through age 21. A twenty-hour (20) 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
sem. hrs.) 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 on-going 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 fifteen-
hour (15) tutoring field experience is required for this
course. Fall/Spring/Summer Prerequisites: Early
Childhood: EDU 22503, 24303, 30503, 31403 Middle
Childhood: EDU 23503, 33203, 33403, 37503
Intervention Specialist: EDU 24503, 34203, 34303, 34403
Multi – Age: EDU 24503, 34203, 34303, 34403 AYA:
EDU 32503, 33203, 33403, 48604

**EDU 47804 Math Methods & Intervention Techniques
ECE/ISK-12/ECSE** (4 sem. hrs.) A course focusing on
teaching children mathematics from age three to grade three with
emphasis placed on state and national curriculum standards,
educational resources (intellectual, technical, and physical),
developmentally and culturally appropriate practice, technology,
assessment, and evaluation. Students will have the opportunity to
experience learning and teaching in technologically enhanced
cooperative learning environments. They will share ideas in small
groups and in whole-class situations using overhead and Elmo
projectors. These technologies will allow them to share their
thinking using all types of manipulatives in authentic learning
environments. A fifteen-hour field experience is required in this
course. Prerequisite: MTH 11505

**EDU 48304 Math Methods & Intervention Techniques for
Middle Childhood.** (4 sem. hrs.) 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 (20) field experience
in an appropriate classroom setting is required which may include
observation, tutoring, and teaching whole classes. Prerequisite: MTH 11505. (Spring)

**EDU 48404 Math Methods and Intervention Techniques for
Adolescent to Young Adult.** (4 sem. hrs.) 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 thirty-hour (30) field experience in an appropriate classroom setting is required which may include observation, tutoring, and teaching whole classes. Prerequisite: MTH 11505 (Spring)

**EDU 48504 Science Methods & Intervention Techniques for
Adolescent to Young Adult.** (4 sem. hrs.) 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 thirty-hour (30) field experience in an appropriate
classroom setting is required. (Fall)

**EDU 48604 Integrated Language Arts Methods for Adolescent
to Young Adult.** (4 sem. hrs.) 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 (30) field experience in an appropriate classroom setting is
required. Prerequisite: Admission to Teacher Education. (Spring)

**EDU 48704 Social Studies Methods for Adolescent to Young
Adult.** (4 sem. hrs.) 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 thirty-hour (30) field experience in an appropriate classroom setting is required. (Fall)

EDU 48801-03 Selected Topics in Education. (1-3 Credit Hours) Study of topics not included in the regular curriculum offerings. A group of students or the instructor may select the field of study. Prerequisite: Permission of instructor and School Chair. (On Demand)

EDU 48710 Student Teaching: ECE/ECSE (concurrent with EDU 48902). (10 sem. hrs.) 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. Fall/Spring

EDU 48902 Portfolio (concurrent with Clinical Practice). (2 sem. hrs.) 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. Portfolio Benchmark III is assessed. (Fall, Spring)

EDU 48910 Student Teaching: ECE/ISK-12 (concurrent with EDU 48902). (10 sem. hrs.) 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 candidates will attend university seminars during this experience. Instructor permission only. (Fall, Spring)

EDU 49210 Clinical Practice in the Middle Childhood Setting (concurrent with EDU 48902). (10 sem. hrs.) 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. Prerequisite: EDU 48902. (10 sem. hrs.) 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. Instructor permission only. (Fall, Spring)

EDU 49510 Clinical Practice: Health Education (concurrent with EDU 48902). (10 sem. hrs.) 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. Instructor permission only. (Fall, Spring)

EDU 49610 Clinical Practice: Physical Education (concurrent with EDU 48902). (10 sem. hrs.) 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. (Fall, Spring)

EDU 49710 Clinical Practice: Music (concurrent with EDU 48902). (10 sem. hrs.) 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. Instructor permission only. Fall/Spring

EDU 49901-05 Directed Studies in Education (elective). (1-5 sem. hrs.) 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 10103 Basic Electricity/Electronics. (3 sem. hrs.) 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. Two-hour lecture, two-hour lab. Prerequisite/Co-requisite: TEC 11704 or MTH 11403. Course fee required. (Fall)

ELE 10303 Microcomputer Hardware. (3 sem. hrs.) 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-hour lecture, two-hour lab. 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-hour lecture, two-hour lab. Course fee required. Co-requisite: ELE 25003. Fall
ELE 21203 Programmable Controllers II. (3 sem. hrs.) Continuation of Programmable Controllers I. Topics include: program control, data manipulation instructions, mathematical instructions, sequencer instructions, and networking. Two-hour lecture, two-hour lab. Course fee required. Prerequisite: ELE 21103. (Spring)

ELE 21303 Computer Network Security. (3 sem. hrs.) A course designed to introduce students to concepts associated with Internet and Intranet security. Topics include: authentication, attacks, remote access, E-mail, web security, directory services, wireless, instant messaging, infrastructure devices, secure topologies, intrusion detection, security baselines, cryptography, physical security, disaster recovery. Two-hour lecture, two-hour lab. Course fee required. (Fall)

ELE 25003 Industrial Controls. (3 sem. hrs.) 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-hour lecture, two-hour lab. Course fee required. Prerequisite: ELE 10104. (Fall)

ELE 25303 Server Virtualization. (3 sem. hrs.) 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-hour lecture, four-hour lab. (Fall)

ELE 27003 Robotics. (3 sem. hrs.) 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-hour lecture, two-hour lab. Course fee required. Prerequisite: ELE 25003. (Spring)

ELE 28801-05 Selected Topics in Electronic Technology. (1-5 sem. hrs.) 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. (1-4 sem. hrs.) Workplace experience gained through placement into a work environment. Coordination, supervision, and evaluation conducted by a School of Technology faculty member and participating company. May be repeated once. (On Demand)

ELE 29901-03 Directed Studies in Electronic Technology. (1-3 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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 10503 Integrated Developmental Reading and Writing (3 sem. hrs.). A college-readiness course designed to assist students in developing and improving reading and writing proficiency. Reading and writing processes are explored, practiced, and developed in order to prepare the student for the rigor of college-level reading and writing. Permission only. Required as determined by placement. (Fall, Spring, Summer)

ENG 10503ALP Integrated Developmental Reading and Writing (3 sem. hrs.). A college-readiness course designed to assist students in developing and improving reading and writing proficiency. Reading and writing processes are explored, practiced, and developed in order to prepare the student for the rigor of college-level reading and writing. This course must be
taken with its co-requisite ENG 11103ALP course. Required as determined by placement testing. (Fall, Spring, Summer)

**ENG 11103ALP (TM) Composition I** (3 sem. hrs.). A writing-intensive course designed to improve critical thinking, reading, and writing skills. Students will address, in writing, the needs of different audiences in a variety of purposes and contexts. Attention will be paid, primarily, to source-based, argument-driven writing and reading with an academic context. This course must be taken with its co-requisite ENG 10503ALP course. Required as determined by placement testing. (Fall, Spring, Summer)

**ENG 111A4 (TM) Composition I with Supplement** (4 sem. hrs.). A writing-intensive course designed to improve critical thinking, reading, and writing skills. Students will address, in writing, the needs of different audiences in a variety of purposes and contexts. Attention will be paid, primarily, to source-based, argument-driven writing and reading with an academic context. In addition to classroom instruction, students will receive supplemental instruction that provides them practice and experience with college writing necessary for the next course in the writing sequence. This course contains an hour of college-readiness supplemental instruction in addition to three hours of Composition I content. Required as determined by placement testing. (Fall, Spring, Summer)

**ENG 11103 (TM) Composition I** (3 sem. hrs.). A writing-intensive course designed to improve critical thinking, reading, and writing skills. Students will address, in writing, the needs of different audiences in a variety of purposes and contexts. Attention will be paid, primarily, to source-based, argument-driven writing and reading with an academic context. Determined by placement testing. (Fall, Spring, Summer)

**ENG 11203 (TM) Composition II** (3 sem. hrs.). 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, Summer)

**ENG 12003 Honors Composition** (3 sem. hrs.). This course is a study of the writing process covering expository and research writing for Rio Grande Honors Program students. Topics that will be covered include but are not limited to various writing conventions, the research process, and source integration and citation. Honors students can take this course in place of both ENG 11103 and ENG 11203. Successful completion of ENG 12003 with a B+ or better will earn students advanced credit for ENG 11103. If students receive lower than a B+, ENG 11103 will not appear on their transcripts as credit earned. Prerequisites: Acceptance into the Rio Grande Honors Program and placement testing of 82 or better on the COMPASS reading test or 21 or better on the ACT reading test. Honors students who complete ENG 11103 with a C- or better can take ENG 12003 in place of ENG 11203. (Fall)

**ENG 21403 Business and Technical Writing** (3 sem. hrs.). 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)

**ENG 22103 Creative Writing** (3 sem. hrs.). 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. (Spring)

**ENG 24103 (TM) The Literary Imagination** (3 sem. hrs.). In this course, students will learn how to read, analyze, respond to, and interpret various literary genres through the use of literary terminology and concepts. Students will read a wide range of literary works from diverse times and places and be introduced to critical methods that will assist in their literary analyses. In addition, students will learn how to write critical essays that synthesize ideas presented through literature. The purpose of this class is to help students appreciate literature as well as to think critically about that literature. Prerequisite: 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 sem. hrs.). A study of literature of interest to children in the pre-school and elementary grades, including oral presentations and book selection. Prerequisite: ENG 11203 with a grade of C or better. Class may be taken concurrently with ENG 11203. (Fall, Spring)

**ENG 24703 Adolescent and Young Adult Literature** (3 sem. hrs.). A study of literature of interest to students in middle and secondary schools, including classroom presentation and book selection. Prerequisite: ENG 11203 with a grade of C or better. Class may be taken concurrently with ENG 11203. (Spring)

**ENG 24803 Comparative World Literature** (3 sem. hrs.). 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 11203 with a grade of C or better. Class may be taken concurrently with ENG 11203. (Fall, Even)

**ENG 25103 American Literature to the Civil War** (3 sem. hrs.). Major representative ideas, genres, and authors in the development of American literature from the pre-colonial period to the Civil War. Prerequisite: ENG 11203 with a grade of C or better. Class may be taken concurrently with ENG 11203. (Fall)

**ENG 25203 American Literature since the Civil War** (3 sem. hrs.). Major representative ideas, genres, and authors in realism, naturalism, and other movements from the Civil War to the present.
Prerequisite: ENG 11203 with a grade of C or better. Class may be taken concurrently with ENG 11203. (Spring)

ENG 26103 British Literature to the Romantic Era (3 sem. hrs.). A survey of selected literary forms, authors, and works of the Medieval, Renaissance, and Neo-classical periods in British literature. Prerequisite: ENG 11203 with a grade of C or better. Class may be taken concurrently with ENG 11203. (Fall)

ENG 26203 British Literature since the Romantic Era (3 sem. hrs.). A survey of selected literary forms, authors, and works of the Romantic, Victorian, and modern periods in British literature. Prerequisite: ENG 11203 with a grade of C or better. Class may be taken concurrently with ENG 11203. (Spring)

ENG 27503 Introduction to Film (3 sem. hrs.). The study of various film genres from the silent film era to the present day. The course will focus on the American film industry but may include international films as well. In addition to learning about the cultural and production history of film, students will analyze film’s cinematic language, focusing on elements of form such as narrative, mise-en-scene, cinematography, editing, acting, and sound. Students will also learn about film’s function in society. Consideration should be given to the subject matter of this course: R-rated films, which contain adult subject matter and language, may be included. Prerequisite: ENG 11203 with a C or above. (Spring 2018)

ENG 29901-05 Directed Studies in English (1-5 sem. hrs.). 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. Prerequisite: ENG 11203 with a grade of C or better. Class may be taken concurrently with ENG 11203. (On Demand)

ENG 33403 The English Language (3 sem. hrs.). A study of the English language in terms of language acquisition and development; phonology, structure, linguistic change, and meanings of language; vocabulary accretion; communication purposes in both written and spoken discourses; and the application of English grammar in teaching and learning. Prerequisite: ENG 11203 with a C or better. (Fall 2018)

ENG 36403 Shakespeare: From Script to Stage to Screen (3 sem. hrs.). 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 2018)

ENG 37103 Literature and Media (3 sem. hrs.). An exploration of ways in which literature and visual culture, particularly the cinematic, mirror 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. (Spring)

ENG 38103 Professional Writing (3 sem. hrs.). 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 2018

ENG 38803 Selected Topics in English (3 sem. hrs.). 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 44303 Genre Studies (3 sem. hrs.). 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 2018)

ENG 44603 Literary Periods (3 sem. hrs.). 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 2018)

ENG 45103 Major Author(s) (3 sem. hrs.). 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 (1-3 sem. hrs.). 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. (Spring)

ENG 49003 Literature and Writing Seminar (3 sem. hrs.). 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. Prerequisite: ENG 11203 with a grade of C or better. Must be taken in final spring semester of English coursework. (Fall)

ENG 49901-05 Directed Studies in English (1-5 sem. hrs.). 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. Prerequisite: ENG 11203 with a grade of C or better. (On Demand)

ENT - Entrepreneurship

ENT 24403 Small Business Management (3 sem. hrs.) Practical methods of organizing, financing, and operating the small-scale enterprise. Prerequisite: BM 20403. This course was previously listed as BM 24403. Lab fee required. (Fall)
ENT 44403 Small Business Management. (3 sem. hrs.) 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 sem. hrs.). 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 1203 Listening and Reporting (3 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 (1-5 sem. hrs.). A study of topics not included in other course offerings. (On Demand)

FIN - Finance

FIN 20103 Principles of Banking. (3 sem. hrs.) This course is designed to provide students with an introduction and overview to the principles, concepts, and operations of banking. It includes information concerning the structure, purposes, and economic environment in which commercial banks operate. The financial products and services provided to consumers and businesses will be presented. Ethical and regulatory issues will also be considered. (Fall)

FIN 20403 Financial Management. (3 sem. hrs.) Fundamental concepts of Financial Management, time value of money, stock valuation, bond valuation, risk and return financial analysis, and working capital management. Prerequisite: ACC 12403. Lab fee required Fall/Spring

FIN 21103 Money and Banking. (3 sem. hrs.) This course is designed to provide students with an introduction and overview to the function of money and banking in the U.S. economy. It includes information concerning the types of financial institutions, the role of saving and lending, and the features of a bank’s balance sheet and income statement. The role and function of the Federal Reserve in influencing monetary and fiscal policies will be presented. The importance of bank regulation as well as international banking will also be considered. (Fall)

FIN 21403 Principles of Investment. (3 sem. hrs.) The investment environment, risk and return, markets, and portfolio analysis. (Fall, Spring)

FIN 22103 Banking Laws and Regulations. (3 sem. hrs.) The purpose of this course is to provide critical information concerning the banking laws and regulations in today’s financial environment. This course considers how banks, are affected by laws and regulations. It provides an overview of the basic laws and banking regulations that govern deposit accounts, lending, real estate lending, bankruptcy, non-deposit products and services, international banking, marketing, safety and soundness, and information reporting. (Spring)

FIN 26403/36403 Consumer Lending. (3 sem. hrs.) The purpose of this course is to introduce students to the essentials of consumer lending and explain the important and relevant features, processes, and laws. Students will learn the features and benefits of consumer loan products and operations, including closed-end and open-end loans, direct and indirect lending, and secured lending. The course presents the consumer lending process from generating and processing loan applications to loan closing, documentation, collection, and recovery. It also reviews the credit investigation, loan evaluation, and decision-making processes. The customer relationship building as well as the laws and regulations that affect lending will be studied. (Spring)

FIN 28403/38403 Commercial Lending. (3 sem. hrs.) This course provides an overview of the nature and components of commercial lending. Business clients, their industry areas and organizational structures are discussed. Building and maintaining client relationships as well business banking organizational structures, administrative processes, documentation, and risk management are presented. The course also considers the economic factors important to commercial lending markets, regulators and regulations, and loan interviewing and negotiation. The basic analysis of income and balance sheet statements, ratios and cash flow analysis is presented. Also included are loan structuring, documentation, closing and support, and identifying and handling problem loans. (Spring)
FIN 35403 Financial Administration of Health Care Facilities (3 sem. hrs.) 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)

FPA - Fine and Performing Arts

FPA 10503 (TM) Fine Arts. (3 sem. hrs.) 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)

HCA- Health Care Administration

HCA 21104/31104 Fundamentals of Health Care (4 sem. hrs.) This course covers a variety of managerial concepts, including the role of management in health care, leadership styles, leadership competencies, ethical responsibility, management and motivation, organizational behavior, strategic planning, marketing, quality improvement, information technology, financing health care and health insurance, financial management, managing health care professionals, cultural proficiency, health care law, fraud and abuse. This course will provide students with a broad knowledge of the many components of health care administration that will be further developed in subsequent HCA courses. (Fall)

HCA 21204/31204 Administration of Acute Care Facilities (4 sem. hrs.) This course guides students through the inner workings of the modern acute care hospital. Topics of discussion will include: the history of hospitals; roles of management, physicians, nurses, and staff; administrative services and financial services. This course will explore the vital collaboration between health care providers and diverse practices including clinical laboratory science, pharmacy, physical therapy, and social services, while evaluating the relationship of quality, efficiency, and cost. (Spring)

HCA 31303 Population Health (3 sem. hrs.). This course discusses an important emerging discipline known as population health. Population health considers the distribution, determinants, interventions, and policies that affect health outcomes across a population. Students will be provided with multiple perspectives in population health, including current concepts such as quality, patient safety, and risk management. (Spring)

HCA 41104 Concepts in Acute Care Facilities (3 sem. hrs.) This course concentrates on leadership in a health care organization, allowing the opportunity for further development of critical thinking skills and reinforcement of management principles. Case studies and current health care scenarios will be major component for student learning in this course. (Spring)

HCA 41203 Health Care and the Aging Patients (3 sem. hrs). This course discusses various aspects of aging, the knowledge of which is essential for all individuals working in various healthcare settings. The courses focus on trends in aging population, theories of aging, and effect of gender and culture on aging. A detailed discussion about various age-related changes and health assessment is included. Interventions for aging individuals with chronic diseases, inadequate nutrition and mobility, and pain will be discussed. Various residential options for aging individuals, environmental safety and security, prevention of falls, and elder abuse and neglect will be covered in detail. Finally, many issues related to death and dying, and ethical and legal issues related to loss, grief, and bereavement in aging individuals will be another focus of this course. (Fall)

HIS - History

HIS 12103 American History I (To 1877). (3 sem. hrs.) 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 sem. hrs.) Political, diplomatic, social, and economic development of the United States from Reconstruction through the present. (Fall, Spring)

HIS 13103 (TM) World Civilization I. (3 sem. hrs.) 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 sem. hrs.) 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. (Fall, Spring)

HIS 22203 The American Experience in Global Perspective. (3 sem. hrs.) 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)

HIS 22403 The Westward Movement. (3 sem. hrs.) 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 “Sodbuster”, and their parts in western society. (Spring)

HIS 22503 History of Ohio. (3 sem. hrs.) 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. (1-3 sem. hrs.) Topics to be announced in the schedule. (On Demand)

HIS 29901-03 Directed Studies in History. (1-3 sem. hrs.) 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)

HPE - Health and Physical Education

HPE 10000 Field Experience: College I. (0 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) This activity course teaches the basic skills of archery. Course fee required. (Fall, Spring)

HPE 11201 Beginning Swimming. (1 sem. hrs.) This activity course teaches the basic skills in swimming. (Fall, Spring)

HPE 11301 Intermediate Swimming. (1 sem. hrs.) This activity course teaches intermediate skills in swimming. Spring

HPE 11401 Lifeguard Training. (1 sem. hrs.) This activity course teaches the basic skills in lifeguard training. Course fee required. (Spring)

HPE 11601 Golf. (1 sem. hrs.) This activity course teaches the
basic skills of golf. Course fee required. (Fall, Spring)

**HPE 11701 Swimming for Physical Fitness.** (1 sem. hrs.) 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 sem. hrs.) This activity course teaches the basic skills of folk and social dance. Course fee required. (Spring)

**HPE 12401 Badminton.** (1 sem. hr.) This activity course teaches the basic skills of badminton. Course fee required. (Fall, Spring)

**HPE 13101 Conditioning for Physical Fitness.** (1 sem. hr.) This course is an activity course that teaches basic conditioning for physical fitness. (Fall, Spring)

**HPE 13301 Racquetball.** (1 Credit Hour) This activity course teaches the basic skills of racquetball. Course fee required. (Fall, Spring)

**HPE 13401 Weight Training.** (1 sem. hr.) This activity course teaches the basic skills of weight training. (Spring)

**HPE 15103 Team Sports I.** (3 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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 sem. hr.) 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 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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 sem. hr.) This course is an overview of the rules, regulations, and techniques necessary for officiating softball and baseball. (Fall)

**HPE 22301 Officiating Basketball.** (1 sem. hr.) 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 sem. hr.) This course is an overview of the rules, regulations, and techniques necessary for officiating volleyball. (Spring)

**HPE 24003 Essentials in Strength & Conditioning** (3 sem. hrs.) This course is designed to provide a comprehensive overview of strength and conditioning. Emphasis is placed on the exercise sciences (including anatomy, exercise physiology, and biomechanics). This course will provide in depth knowledge on concepts related to strength and conditioning exercise techniques including; warm-up and stretching techniques, resistance training and spotting techniques, programming for general muscular strength, endurance and hypertrophy proper sets, repetitions, loads, rest intervals and recovery. In addition, topics related to fitness center facility organization, design and risk management will be covered. (Spring)

**HPE 24103 Concepts in Exercise Science I** (3 sem. hrs.) This will be a lecture/discussion course presenting fundamental exercise science information including the topics of functional anatomy, introductory concepts of exercise physiology, basic nutrition, weight management, body composition and pre-exercise screening combined with hands-on classroom activities to supplement classroom lecture. This will be the first course in a 2 part sequence that will cover exam content for either the National Council on Strength and Fitness, American College of Sports Medicine or National Strength and Conditioning Association - Certified Personal Trainer Exams. (Fall)

**HPE 24203 Concepts in Exercise Science II** (3 sem. hrs.) This is the second course in the 2 part sequence and will serve as a capstone course for associate’s students where students will have the opportunity to sit for either the National Council on Strength and Fitness, American College of Sports Medicine or National Strength and Conditioning Associations- Certified Personal Trainer Exam upon completion. This will be a lecture/discussion course presenting fundamental concepts in the areas of pre-
exercising screening, exercise testing for the 5 health related components of physical fitness, exercise prescription, and special populations, combined with hands-on classroom activities to supplement classroom lecture. (Spring)

**HPE 24302 Safety & First Aid.** (2 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) This course covers the skills, techniques, and methods applicable to coaching football. (Fall)

**HPE 25402 Coaching Basketball.** (2 sem. hrs.) This course covers the skills, techniques, and methods applicable to coaching basketball. (Fall)

**HPE 25502 Coaching Track and Field.** (2 sem. hrs.) This course covers the skills, techniques, and methods applicable to coaching track and field. (Fall)

**HPE 25602 Coaching Baseball and Softball.** (2 sem. hrs.) This course covers the skills, techniques, and methods applicable to coaching baseball and softball. Fall

**HPE 25702 Coaching Volleyball.** (2 sem. hrs.) This course covers the skills, techniques, and methods applicable to coaching volleyball. (Fall)

**HPE 26202 Drug Education.** (2 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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)

**HPE 27502 Sex Education Seminar.** (2 sem. hrs.) 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.** (1-2 sem. hrs.) 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 203 Administration of Physical Activity Programs.** (3 sem. hrs.) This course is an introduction to administrative theory and the application of administrative practices to school health, commercial fitness programs, and physical education programs. Particular emphasis will be placed on budget, decision-making, planning, communication, event management, and legal topics. A problem-solving approach will be employed. (Fall)

**HPE 29901-02 Directed Studies in HPE.** (1-2 sem. hrs.) 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 sem. hrs.) 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 audiovisual aids. (Spring)

**HPE 32403 Evaluation of Human Physical Performance.** (3 sem. hrs.) 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 sem. hrs.) 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 firsthand 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 Odd)

**HPE 34403 Introduction to Biomechanics.** (3 sem. hrs.) 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 10104 or 21404. (Spring)

**HPE 36203 Nutrition for Sports & Exercise.** (3 sem. hrs.) 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 sem. hrs.) 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 30404. (Fall)

**HPE 41103 Special Populations.** (3 sem. hrs.) This course will cover the pathophysiology, exercise contraindications/concerns/modifications, and exercise prescription for various special populations including those with controlled cardiovascular disease, pulmonary disease, metabolic disease, musculoskeletal injury and disease, older adults and pregnant women. (Spring)

**HPE 41203 Strength & Conditioning for Athletic Performance** (3 sem. hrs.) This course is designed to provide a comprehensive overview of strength and conditioning and will primarily provide knowledge and skills needed for training for athletic performance. This course will go beyond the 5 health-related components of physical fitness, cardiorespiratory endurance, muscular strength, muscular endurance, flexibility and body composition needed for the average population of people to achieve health and prevent disease and cover training these components for athletic performance. In addition, this course will cover topics on training the performance-related components of fitness, such as, power, speed, agility and long term periodization. (Spring)

**HPE 41403 Physical Education for Exceptional Children.** (3 sem. hrs.) 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 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 sem. hrs.) 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 45202 Critical Issues in Health Seminar.** (2 sem. hrs.) This course is designed to study a wide range of controversial and perplexing topics of current interest to today’s health professionals. Content will include current journal information, public media topics, and Internet sources of information. Content will be supplemented with presentations by speakers from local health agencies. This course will be a seminar style class with emphasis on discussion and the presentation of information by students. (Fall)

**HPE 45403 Administration of Health Programs.** (3 sem. hrs.) This course covers the application of administrative theory and practices to the management of programs in personal health, community health, and school health education. Particular emphasis will be placed on decision-making, communication, budget, legal topics, accessing health resources, and coordinating the provision of Health Education services across a multiplicity of ages and grades. (Fall)

**HPE 48801-02 Selected Topics in HPE.** (1-2 sem. hrs.) 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 sem. hrs.) 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 one hundred (100) clock hours working in the business or agency setting. Prerequisites: Senior standing, 2.5 G.P.A. in the major, and permission of the instructor. (Fall, Spring)

**HPE 49804 Sports and Exercise Internship.** (4 sem. hrs.) 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 G.P.A. in the major, a 2.3 overall G.P.A., and permission of the instructor. (Fall, Spring)

**HPE 49901-02 Directed Studies in HPE.** (1-2 sem. hrs.) 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

HUM - Humanities

HUM 10103 Honors Seminar in the Humanities (3 sem. hrs.). This course is an interdisciplinary exploration and analysis of a selected topic in the Humanities. This course designed to foster an enhanced appreciation of that specific Humanities topic across the disciplines comprising the Humanities. Topics will vary from term to term. Possible topics include, but are not limited to, Socrates, the Harlem Renaissance, or Postmodernism. Prerequisites: Acceptance into the Rio Grande Honors Program. (Spring)

HUM 20103 (TM) The Humanities. (3 sem. hrs.). 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 30503 Basic Electricity/Electronics (3 sem. hrs.). 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 30303 Microcomputer Hardware (3 sem. hrs.). 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-hour lecture, two-hour lab. (Spring)

IND 31102 Blueprint Reading for Industry (2 sem. hrs.). 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-hour lab. (Fall)

IND 31103 Programmable Controllers I (3 sem. hrs.). 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-hour lecture, two-hour lab. (Fall)

IND 31203 GMAW Processes (3 sem. hrs.). The Basic GMAW Processes course is designed to provide the student with practical experience using Gas Metal Arc Welding equipment. The course of study allows the student to learn and apply the techniques required to perform the basic procedures of the GMAW Process. The course will cover safety, equipment setup, process adjustments, types of weld metal transfer, and welding techniques. One-hour lecture, four-hour lab. (Spring)

IND 31503 Basic Welding (3 sem. hrs.). 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-hour lab. (Fall)

IND 31603 Schematic Diagram Reading (3 sem. hrs.). 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. One-hour lecture, four-hour lab. (Spring)

IND 32203 Basic Pipe Welding (3 sem. hrs.). 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-hour lab. (Fall)

IND 32403 Manufacturing Processes (3 sem. hrs.). 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. One-hour lecture, four-hour lab. (Fall)

IND 33103 Advanced Pipe Welding (3 sem. hrs.). 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-hour lab. (Spring)

IND 34103 Materials and Metallurgy (3 sem. hrs.). 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-hour lab. (Fall)

IND 35003 Industrial Controls (3 sem. hrs.). 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-hour lecture, two-hour lab. (Fall)

IND 35103 Power Transmission Devices (3 sem. hrs.). 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. One-hour lecture, four-hour lab. (Spring)

IND 35202 Preventive Maintenance Planning and Scheduling (2 sem. hrs.) 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. One-hour lecture, two-hour lab. (Spring)

IND 35503 Mechanical Skills (3 sem. hrs.). 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 four-hour lab. (Fall)

IND 36102 Hydraulics & Pneumatics (2 sem. hrs.). 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-hour lab. (Spring)

IND 36103 Weld Test & Inspection (3 sem. hrs.). Designed to provide a basic understanding of the destructive and nondestructive 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 37102 Occupational Safety and Health (2 sem. hrs.). 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-hour lecture. Fall

IND 38202 Machine Repair and Maintenance (2 sem. hrs.). 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-hour lab. (On Demand)

IND 40103 Advanced Welding (3 sem. hrs.). 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-hour lab. (Spring)

**IND 40203 GTAW Processes (3 sem. hrs.)** The Basic GTAW Processes course is designed to provide the student with practical experience using Gas Tungsten Arc Welding equipment. The course of study allows the student to learn and apply the techniques required to perform the basic procedures of the GTAW Process. The course will cover safety, equipment setup, process adjustments, types of welding currents, and welding techniques. One-hour lecture, four-hour lab. (Spring)

**IND 41203 Programmable Controllers II (3 sem. hrs.).** 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-hour lecture, two-hour lab. (Spring)

**IND 41303 Computer Network Security (3 sem. hrs.).** A course designed to introduce students to concepts associated with Internet and Intranet Security. Research project will be assigned. Four-hour lecture, four-hour lab. Eight-week course. (Fall)

**IND 44202 Electrical Troubleshooting and Repair (2 sem. hrs.).** 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-hour lab. (Spring)

**IND 45403 Certification Seminar (3 sem. hrs.).** A course designed to give a structured review as preparation for the student to master the Fundamentals of Manufacturing Certification Examination. Three-hour lecture. (Spring)

**IND 46102 Advanced Hydraulics & Pneumatics (2 sem. hrs.).** 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-hour lab. (Fall)

**IND 47003 Robotics (3 sem. hrs.).** 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-hour lecture, two-hour lab. (Spring)

**IND 48801-05 Selected Topics in Industrial Technology. (1-5 sem. hrs.).** 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. (1-4 sem. hrs.).** Workplace experience gained through placement into an Industrial Technology work environment. Coordination, supervision, and evaluation conducted by a School of Technology faculty member and participating company. May be repeated once. (On Demand)

**IT - Information Technology**

**IT 10103 Introduction to Information Technology. (3 sem. hrs.)** An introduction to information technology. Topics include the Internet; computer hardware; operating systems and application software; multimedia; network communication; personal, social, and ethical issues. Lab fee required. (Fall, Spring)

**IT 10203 MS Office and the Internet I. (3 sem. hrs.)** MS Office or later programs will be studied as an integrated unit to develop basic proficiency. Small Projects in Word, Excel, PowerPoint, and Access will be completed. Lab fee required. (Fall, Spring)

**IT 20103 Windows Operating System and Hardware. (3 sem. hrs.)** The study of operating systems such as Windows, Server, and Linux will be examined. The ability to identify and troubleshoot PC hardware will be covered as well. Lab fee required. Prerequisite: IT 10103. (Spring)

**IT 20303 DBMS Concepts (3 sem. hrs.)** A study of Database Management Systems concepts leading to the model and design of a relational database. A business database project will be completed. Lab fee required. (Fall)

**IT 20403 Web Development (3 sem. hrs.)** A study of web development concepts leading to website design with Dream Weaver or other software. Lab fee required. Prerequisite: IT 10103 or instructor permission. (Fall)

**IT 20803 Database Communication. (3 sem. hrs.)** 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. Lab fee required. (Spring)

**IT 20903 Web Technology. (3 sem. hrs.)** This course is a study of how the Internet works. Popular Internet server software will be explored. Lab fee required. (Spring)

**IT 30503 Visual Basic. (3 sem. hrs.)** 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. (Fall)

**IT 31403 Electronic Business (e-business). (3 sem. hrs.)** This course focuses on the basic concepts, key issues, and critical technologies of doing business electronically. Prerequisite: (Spring)

**IT 41203 Enterprise Computing. (3 sem. hrs.)** 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. Prerequisite: BM 24503/44503. (Spring)

**JRN - Journalism**

**JRN 22103 News Writing for Media Publications** (3 sem. hrs.). 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 sem. hrs.). 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** (1-3 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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** (1-3 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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** (1-3 sem. hrs.). 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 sem. hrs.). 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** (3-5 sem. hrs.). 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 10001 Gateway to Success** (1 sem. hr.) 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)

**LA 10303 Focus on Success** (3 sem. hrs.) This course is designed to help students create greater success in college and in life. Students will learn many proven strategies for creating greater academic, professional, and personal success.

**LA 20103 Prior Learning Assessment.** (3 sem. hrs.) For the non-traditional student wishing to earn credit for life experience. Students will identify skills, knowledge, and values gained from their experiences and training and equate this learning to college-level programs via completion of a portfolio.

**MFG - Manufacturing Technology**

**MFG 10103 Basic Welding** (3 sem. hrs.). 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-hour lab. Course fee required. (Fall)

**MFG 10203 GMAW Processes** (3 sem. hrs.). The Basic GMAW Processes course is designed to provide the student with practical experience using Gas Metal Arc Welding equipment. The course of study allows the student to learn and apply the techniques required to perform the basic procedures of the GMAW Process. The course will cover safety, equipment setup, process adjustments, types of weld metal transfer, and welding techniques. One-hour lecture, four-hour lab. (Spring).

**MFG 11102 Blueprint Reading for Industry** (2 sem. hrs.). 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-hour lab. Course fee required. (Fall)

**MFG 12103 Weld Testing & Inspection** (3 sem. hrs.). 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. One-hour lecture, four-hour lab. Course fee required. (Fall)

**MFG 12403 Manufacturing Processes** (3 sem. hrs.). 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. One-hour lecture, four-hour lab. Course fee required. (Spring)

**MFG 14103 Schematic Diagram Reading** (3 sem. hrs.). 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. One-hour lecture and four-hour lab. Course fee required. (Spring)

**MFG 16102 Hydraulics and Pneumatics** (2 sem. hrs.). 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 hydraulic and pneumatic components and basic circuits used in industrial hydraulics. Prerequisite: MTH 11403 or TEC 11704 or instructor permission. One-hour lecture, two-hour lab. Course fee required. (Spring)

**MFG 20103 Advanced Welding** (3 sem. hrs.). 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-hour lab. Course fee required. Spring

**MFG 20203 GTAW Processes** (3 sem. hrs.). The Basic GTAW Processes course is designed to provide the student with practical experience using Gas Tungsten Arc Welding equipment. The course of study allows the student to learn and apply the techniques required to perform the basic procedures of the GTAW Process. The course will cover safety, equipment setup, process adjustments, types of welding currents, and welding techniques. One-hour lecture, four-hour lab. (Spring)

**MFG 22203 Basic Pipe Welding** (3 sem. hrs.). 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. One-hour lecture, four-hour lab. (Fall)

**MFG 23103 Advanced Pipe Welding** (3 sem. hrs.). 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. One-hour lecture, four-hour lab. (Spring)
MFG 24103 Materials & Metallurgy (3 sem. hrs.). 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-hour lab. Course fee required. (Spring)

MFG 24302 Electrical Troubleshooting and Repair (2 sem. hrs.). 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-hour lab. Course fee required. (Spring)

MFG 25103 Power Transmission Devices (3 sem. hrs.). 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. One-hour lecture and four-hour lab. Course fee required. (Spring)

MFG 25302 Preventive Maintenance Planning & Scheduling (2 sem. hrs.). 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. One-hour lecture and two-hour lab. Course fee required. (Spring)

MFG 25403 Mechanical Skills (3 sem. hrs.). 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 four-hour lab. Course fee required. (Fall)

MFG 26102 Advanced Hydraulics and Pneumatics (2 sem. hrs.). 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-hour lab. Course fee required. Prerequisite: MFG 16102 or equivalent basic hydraulics and pneumatics course. (Fall)

MFG 27102 Occupational Safety and Health (2 sem. hrs.). 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-hour lecture. (Fall)

MFG 28202 Machine Repair and Maintenance (2 sem. hrs.). 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-hour lab. Course fee required. (On Demand)

MFG 28801-04 Selected Topics in Manufacturing Technology (1-4 sem. hrs.). 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 (1-4 sem. hrs.). 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 (1-3 sem. hrs.). 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 21403 Principles of Marketing. (3 sem. hrs.) An introduction into the field of marketing. The role of the marketing mix (product, price, place, and promotion) in creating marketing strategies will be discussed. Additional topics include the role of consumer behavior, international marketing, marketing research, and advertising. Lab fee required. (Fall, Spring)

MKT 26403 Professional Communication and Business Networking. (3 sem. hrs.) This course provides a general overview of communication within the business environment. Students will gain the tools and skills necessary to effectively communicate within an organization. All forms of business correspondence will be considered, including both verbal and written communication. Presentation skills will also be emphasized, and students will be required to write and present a business report. Lab fee required. (Fall)

MKT 27403 Advertising and Promotion. (3 sem. hrs.) 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. (Spring)

MKT 28403 Business-to-Business Marketing. (3 sem. hrs.) 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 33403 Marketing Research. (3 sem. hrs.) This course focuses on how marketers use research as a tool for decision making. Topics include: designing quantitative and qualitative research studies, preparing questionnaires, collecting date, and analyzing and reporting results. Situation and data analysis skills are developed through lectures and field projects. (Spring)

MKT 34403 Consumer Behavior. (3 sem. hrs.) A study of the theoretical concepts of consumer behavior. The course stresses how consumers make decisions, as well as the internal and external forces that can influence the consumer decision-making process. Topics include: the effects of motivation, personality, culture, family, perception, and attitudes on consumption. Through this course, students will also learn how to analyze their own consumer behavior. (Fall)

MKT 47403 Marketing Management. (3 sem. hrs.) This course focuses on applying many of the marketing concepts discussed throughout the marketing program. Students will be able to identify marketing problems and situations, diagnose causes, and create effective marketing strategies through the use of case studies and field projects. Communications of findings and strategies are emphasized. Prerequisite: MKT 21403. (Spring)

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 sem. hrs.) 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, Summer)

MTH 11203 Introductory Algebra (3 sem. hrs.) 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, Summer)

MTH 11403 Intermediate Algebra (3 sem. hrs.) 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, Summer)

MTH 11505 Mathematics for Educators I (5 sem. hrs.) 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 11903 Mathematics for Nurses (3 sem. hrs.) This course introduces the nursing student to the math skills necessary for medication dosage calculation. The student will expand on previous knowledge of percentages, proportions, and changing medication dosage calculation. The student will expand on previous knowledge of percentages, proportions, and changing units. Additional concepts discussed are legal/ethical accountability related to medication administration and the use of the nursing process in medication administration. Upon completion of the course, the student demonstrates proficiency in medication dosage calculation. (Fall)

MTH 13404 College Algebra (4 sem. hrs.) An introduction to functions. Topics include: algebraic, exponential, and logarithmic functions. Also included are systems of linear and nonlinear equations, conic sections, vectors, and an introduction to sequences with a graphing calculator. A graphing calculator is required. This course may not be used as a mathematics elective. Prerequisite: C or better in MTH 11203. (Note: MTH 13404 College Algebra together with MTH 14403 Trigonometry are equivalent to MTH 14505 Precalculus.) Course fee required.

MTH 14403 Trigonometry (3 sem. hrs.) An introduction to trigonometric functions. Emphasis is placed on graphing with a graphing calculator. A graphing calculator is required. This course may not be used as a mathematics elective. (Note: MTH 13404 College Algebra together with MTH 14403 Trigonometry are equivalent to MTH 14505 Precalculus.) Course fee required.

MTH 18803 Algebra Pilot (3 sem. hrs.) This course is web-based, and it allows the student to proceed through the material covered in MTH 10403 Math Review, MTH 11203 Introductory Algebra, and MTH 11403 Intermediate Algebra at a somewhat self-paced manner with an instructor present in the room. Upon completion of MTH 18803, the student’s grade is posted according to the material completed, and it is so indicated on the student’s transcript. (Fall, Spring, Summer)

MTH 14505 (TM) Pre-calculus (5 sem. hrs.) An introduction to functions. Topics include: algebraic, exponential, logarithmic, and trigonometric functions. Also included are systems of linear and
non-linear equations, conic sections, vectors, sequences and series. 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 Bridge to Mathematics for Educators I (1 sem. hr.) This course is a companion course to MTH 11505 Mathematics for Educators I. This course is designed to help the student build the basic mathematical skills needed to be successful in MTH 11505. (Fall)

MTH 15105 (TM) Calculus I (5 sem. hrs.). 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 sem. hrs.). A continuation of Math 15105. Topics include: transcendental functions, techniques of integration, indeterminate forms, improper integrals, sequences, series, parametric equation, polar coordinators, and elementary differential equations. Prerequisite: MTH 15105. Course fee required. (Spring)

MTH 15304 Multivariable Calculus (4 sem. hrs.). 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 21403 Bridge to Introductory Probability and Statistics (3 sem. hrs.) This course is a companion course to MTH 21404 Introduction to Probability and Statistics. This course is designed to help the student build the basic mathematical skills needed to be successful in MTH 21404. (Fall, Spring)

MTH 21404 Introductory Probability and Statistics (4 sem. hrs.). 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 21803. 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 21704 Introduction to Probability (4 sem. hrs.). 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 21803 Introduction to Statistics (3 sem. hrs.). A continuation of MTH 21704. 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 21803 and MTH 21404. Prerequisite: MTH 21704. Course fee required. (Spring)

MTH 25403 Discrete Mathematics (3 sem. hrs.). 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 sem. hrs.). A study of basic concepts of abstract number theory. Topics include: divisors, Diophantine equations, linear and quadratic equations, and continued fractions. Prerequisite: MTH 25403 (Spring)

MTH 27403 College Geometry (3 sem. hrs.). 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)

MTH 27703 Differential Equations I (3 sem. hrs.). A study of first and second order ordinary differential equations with emphasis on applications. Topics include solutions of linear, separable, exact, Bernoulli’s, Euler’s and higher order linear constant coefficient differential equations; finding solutions using Laplace and Inverse Laplace transforms. Prerequisite: MTH 15304 Course fee required. (Spring)

MTH 28801-05 Selected Topics in Mathematics (1-5 sem. hrs.). 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 sem. hrs.). 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)

MTH 37903 Differential Equations II (3 sem. hrs.). A continuation of MTH 27703. Topics include: series solutions, Gamma function, systems of differential equations, numerical
methods, and Fourier series. Prerequisite: MTH 27703. (On Demand)

**MTH 38403 Linear Algebra** (3 sem. hrs.). 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. (Fall)

**MTH 38603 Abstract Algebra** (3 sem. hrs.). An introduction to modern abstract algebra. Topics include: groups, integral domains, rings, fields, modules, and vector spaces. Prerequisite: MTH 25403. (Fall)

**MTH 43403 History of Mathematics** (3 sem. hrs.). 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

**MTH 44403 Real Variables** (3 sem. hrs.). A rigorous approach to the study of continuous functions. Topics include: sequences, series, limits, derivatives, and integrals. Prerequisite: MTH 25403. (Fall)

**MTH 48801-05 Selected Topics in Mathematics** (1-5 sem. hrs.). 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 sem. hrs.). 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. (Fall, Spring)

**MUS 10201 Piano Lab Practicum** (1 sem. hr.). Individual lessons. May be repeated each semester. Two hours toward graduation for non-Music majors. Course fee required. (Fall, Spring)

**MUS 10202 Piano Review** (2 sem. hrs.) Intensive individual lessons in piano focusing on the basic elements of the Music Department’s piano proficiency requirement. May be repeated each semester. For Music majors only. Course fee required. Fall & Spring

**MUS 10302 Aural Training I** (2 sem. hrs.). The development of skills in writing, aural recognition, and performance of intervals, scales, rhythms, melodies, and harmonies through sight singing, drills, and dictation. Basic interval and rhythmic identification, and major and minor triads are emphasized. Two-hour 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 sem. hrs.). 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-hour class, one-hour lab. Prerequisite: MUS 10302. To be taken concurrently with MUS 12203. (Spring)

**MUS 10403 (TM) Music Appreciation** (3 sem. hrs.). 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 one live concert will be attended and critiqued. Comparisons will be made between music and the visual arts. Designed for non-Music majors. (Fall, Spring)

**MUS 10703 Fundamentals of Music** (3 sem. hrs.). 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 students develop basic music skills used in teaching. Open to all students. (Spring)

**MUS 12101 Symphonic Band** (1 sem. hr.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hr.). 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 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 sem. hr.). 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 sem. hr.). Individual lessons. May be repeated each semester. Two hours toward graduation for non-Music majors. Course fee required. (Fall, Spring)

**MUS 15101 04 Double Bass**
**MUS 15101 05 Guitar**
**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 15101 16 Electric Bass**

**MUS 16101 Voice Lab Practicum** (1 sem. hr.). 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 18101 Jazz Ensemble** (1 sem. hr.). This is an instrumental group that 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 sem. hr.). This is a jazz and contemporary 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 Activities. 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 sem. hrs.). 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 sem. hrs.). 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-hour class, one-hour lab. Prerequisite: MUS 10402. To be taken concurrently with 22103. (Fall)

**MUS 20402 Aural Training IV** (2 sem. hrs.). 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-hour class, one-hour lab. Prerequisite: MUS 20302. To be taken concurrently with MUS 22203. (Spring)

**MUS 20502 Class Voice** (2 sem. hrs.). 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 2018)

**MUS 20802 Brass Methods** (2 sem. hrs.). 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 2017)

**MUS 20902 String Methods** (2 sem. hrs.). 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. (Spring 2018)

**MUS 21002 Woodwind Methods** (2 sem. hrs.). 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 2018)

MUS 21102 Percussion Methods (2 sem. hrs.). 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 2019)

MUS 21203 Field Experience: Marching Band (3 sem. hrs.). This course is designed to provide an overview of the knowledge and skills necessary to organize, administer, implement, and teach a marching band program as part of the K-12 music curriculum. Topics discussed will cover, but are not limited to: show design, music selection, uniforms and equipment, rehearsal planning, marching techniques, budget development, travel planning, practices and policies, philosophy, and curriculum. During the course of the semester, a combination of written and reading assignments, group projects, in-class discussions, individual projects, lectures, guest presentations, and field experiences will be used to best prepare the aspiring music educator for his/her time in the music classroom and as a member of the education community. (Fall 2017)

MUS 22103 Music Theory III (3 sem. hrs.). 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)

MUS 22203 Music Theory IV (3 sem. hrs.). 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 22103. To be taken concurrently with MUS 20402. (Spring)

MUS 23103 Music History I (3 sem. hrs.). 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 2017)

MUS 23203 Music History II (3 sem. hrs.). 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 2018)

MUS 27101/37101 Composition (1 sem. hr.). 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 (1-5 sem. hrs.). 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 (1-5 sem. hrs.). 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 sem. hrs.). 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 2018)

MUS 30402 Music Technology (2 sem. hrs.). 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 2019)

MUS 30502 Conducting I (2 sem. hrs.). 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 2018)

MUS 33202 Choral Literature (2 sem. hrs.). This course is designed to provide students with the basic skills necessary for the successful selection of literature for the choral music classroom. Students will learn about, and how to select, choral repertoire from four major historical periods in music (Baroque, Classical, Romantic, and Modern). Students will also learn a variety of sources for level-appropriate choral repertoire, how to order this repertoire, and criteria to consider when making such choices. Prerequisite: MUS 22203. (Spring 2018)

MUS 33302 Instrumental Literature (2 sem. hrs.). This course is designed to provide students with the basic skills necessary for the successful selection of literature for the instrumental music classroom. Students will learn about, and how to select, instrumental repertoire from four all six major historical periods in music (Medieval, Renaissance, Baroque, Classical, Romantic, and Modern). Students will also learn a variety of sources for level-appropriate choral repertoire, how to order this repertoire, and
criteria to consider when making such choices. Prerequisite: MUS 22203. (Fall 2017)

**MUS 33502 Jazz and World Music History** (2 sem. hrs.). This course is designed as a survey of three topics not covered in Music History courses taken by music majors at URG: Jazz History, Jazz Improvisation, and World Music History. The course will substitute as credit for Music Appreciation for these majors, and will prepare them for the Praxis II examination and a comprehensive knowledge of music. (Fall 2017)

**MUS 34101 Piano Lab Practicum** (1 sem. hr.). 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 sem. hr.). 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 35101 16 Electric Bass

**MUS 36101 Voice Lab Practicum** (1 sem. hr.). 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 sem. hrs.). 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 2019.)

**MUS 40302 Instrumental Arranging** (2 sem. hrs.). 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 2019)

**MUS 44502 Early to Middle Childhood Music Methods** (2 sem. hrs.). 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 National Association for Music Education (NAfME) 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. (Spring 2018)

**MUS 44602 Adolescent to Young Adult Music Methods: Choral** (2 sem. hrs.). This course covers the principles, methods, and materials of music instruction for learners in grade seven through age twenty-one. There will be emphasis on organization and implementation of vocal/choral programs. Special consideration will also be given to NAfME content standards. Twenty clock hours of clinical/practicum experience is required. It is strongly suggested that if the student is not already a member of National Association for Music Education and/or the American Choral Directors Association that he or she will become a member now while training to be a music educator and while paying the student membership price. In addition, it is recommended that the student attend either the NAfME and/or the ACDA Convention. Prerequisite: MUS 12203. (Fall 2018)

**MUS 44702 Adolescent to Young Adult Music Methods: Instrumental** (2 sem. hrs.). This course covers the principles, methods, and materials of music instruction for learners in grades seven through age 21. There will be emphasis on organizational and implementation of instrumental programs. Special consideration will also be given to NAfME content standards. Ten clock hours of clinical/practicum experience is required. It is strongly suggested that if the student is not already a member of National Association for Music Education and/or the Ohio Bandmasters Association that he or she will become a member now while training to be a music educator and while paying the student membership price. Prerequisite: MUS 12203. (Spring 2019.)

**MUS 48801-05 Selected Topics in Music** (1-5 sem. hrs.). This course is a study of topics not included in other course offerings. The student and the instructor may select the field of study. Open to Music or Fine Arts majors. Prerequisite: Permission of the instructor. May be repeated. (On Demand)

**MUS 49003 Music Business Internship** (3 sem. hrs.). 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. Prerequisites: Senior standing and permission of the Music Department Coordinator. (On Demand)

**MUS 49501 Senior Music Activity** (1 sem. hrs.). 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** (1-5 sem. hrs.). 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 15004 Scientific Explorations** (4 sem. hrs.) This is a survey course that emphasizes the integrated nature of science and stresses the application of scientific inquiry to real-world problems. Scientific content is taught within the context of a series of case studies that are researched and resolved throughout the lecture and laboratory. Three-hour lecture, two-hour laboratory. Prerequisites: Acceptance into the Rio Grande Honors Program. (Spring)

**NSC 12303 Descriptive Astronomy** (3 sem. hrs.). 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. (On Demand)

**NSC 20303 Physical Geology** (3 sem. hrs.). 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. (Every other year)

**NSC 22304 (TM) Environmental Science** (4 sem. hrs.). 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-hour lecture, two-hour lab. Course fee required. (Fall, Spring)

**NSC 23101 Environmental Practicum** (1 sem. hr.). 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. Prerequisite: Professor Permission Only. NSC 22304. (Fall)

**NSC 28801-03 Selected Topics in Natural Science** (1-3 sem. hrs.). 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** (1-3 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 sem. hrs.). 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. (Spring)

**NSC 33202 Laboratory Management** (2 sem. hrs.). 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. (Fall)

**NSC 38801-03 Selected Topics in Natural Science** (1-3 sem. hrs.). 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 43101 Lab Experience** (1 sem. hr.). 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 G.P.A. or above in science. Fall, Spring. (On Demand)

**NSC 45303 Integrated Science** (3 sem. hrs.). 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. (On Demand)
NSC 49808 Environmental Internship (8 sem. hrs.). 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 (1-4 sem. hrs.). 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 – Nursing

NUR 10505: Nursing I. (5 sem. hrs.) 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-hour class, six-hour 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 sem. hrs.) 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-hour class, six-hour lab. Course fee required. Prerequisite: NUR 10505 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, MTH 11903 with a grade of “C” or better.

NSC 13101 with a grade of “C” or better, and BIO 10104 with a grade of “C” or better. (Spring)

NUR 11212 Nursing Transition (12 sem. hrs.) This transition course is designed for students entering the LPN to RN bridge program. This course will build on previous knowledge and skills the student received in their LPN/LVN educational process and focus on the professional concepts and skills necessary to transition from the role of LPN/LVN to the role of RN. 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 the infant, the childbearing family, and patients experiencing needs related fluid and electrolyte balance; acid-base balance; the renal system; the integumentary system; and the sensory perceptual systems. Combined with classroom and nursing clinical experience, learning is by the application of concepts. Prerequisite: Official acceptance in the University of Rio Grande-Holzer School of Nursing Advanced LPN/LVN Placement track, current and valid LPN license, and CS 288NO with a grade of “S” (CS 288NO for hybrid students only). (Spring, Summer)

NUR 20404: Nursing III. (4 sem. hrs.) 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 hour class, nine-hour 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, BIO 10302 with a grade of “C” or better, and PSY 11303. (Summer)

NUR 21303: Nursing IV. (3 sem. hrs.) 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. Two-hour class, three-hour lab. Lab fee required. Prerequisite: NUR 20404 or NUR 11212 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance and successful completion of COM 11103 and ENG
NUR 21303: Nursing IV. (3 sem. hrs.) 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. Two-hour class, three-hour lab. Lab fee required. Prerequisite: NUR 11212 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance and successful completion of COM 11103 and ENG 11103 (for hybrid students only). (Summer)

NUR 21707: Nursing V. (7 sem. hrs.) 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-hour class, six-hour clinical. Course fee required. A.D.N Prerequisite: NUR 20404 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, SOC 11103, and ENG 11203. Online LPN to RN Prerequisite: NUR 11212 and NUR 21303 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance (Fall)

NUR 22101: Trends II. (1 sem. hr.) 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 21303 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, ENG 11203, SOC 11103. (Spring)

NUR 20909: Nursing VI. (9 sem. hrs.) 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 oncologic 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) preceptor with an experienced registered nurse. Six-hour class, twelve-hour lab. Course fee required. Prerequisite: NUR 21707 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, NUR 21303 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, ENG 11203, and SOC 11103. (Spring)

NUR 28801-10: Selected Topics in Nursing. (1-10 sem. hrs.) 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 27805: ST: Medical Surgical Nursing I. (5 sem. hrs.) 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. Course fee required. Prerequisite: NUR 21707 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance, NUR 21303 with a grade of “C” or better in
theory and a “satisfactory” designation for clinical performance. (Spring)

NUR 28804: ST: Medical Surgical Nursing II. (4 sem. hrs.) 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. Course fee required. Prerequisite: NUR 27805 with a grade of “C” or better in theory and a “satisfactory” designation for clinical performance. (Summer)

NUR 30303 Concepts of Professional Nursing (3 sem. hrs.) 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. Three-hour class. Prerequisite: Graduate of a State Board of Nursing approved pre-licensure R.N. associate degree or diploma program in nursing. Note: Students may enroll in this course prior to receiving RN license and/or official acceptance into the RN-BSN Program. (Fall)

NUR 30707 Clinical Decision Making. (7 sem. hrs.) 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. Stress concepts, theories, and models, as well as stress management are covered. The aging process and common health alterations 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. Prerequisites: Official acceptance to the RN-BSN program; current Ohio RN License, CPR, and nursing professional liability insurance, NUR 30303 with a grade of “C” or better in theory; and BIO 49303. (Spring)

NUR 31303: Healthcare Ethics. (3 sem. hrs.) 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. Prerequisite: Graduate of a State Board of Nursing approved pre-licensure R.N. associate degree or diploma program in nursing. Students may enroll in this course prior to receiving RN license and/or official acceptance into the RN-BSN Program. (Fall)

NUR 32303 Nursing Informatics (3 sem. hrs.) This course provides a systematic application of the use of information science and technology to support patient care and provide leadership within health care systems and/or academic settings. Emphasis is on the use of information systems/technology to evaluate programs of care, outcomes of care, and care systems to inform quality improvement, financial decision-making, selection and evaluation of the information systems of patient care technology, and related ethical, regulatory, and legal issues. Prerequisites: Successful completion of NUR 30303 and NUR 31303 with a grade of “C” or better. (Spring)

NUR 40303 Nursing Research. (3 sem. hrs.) 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. Prerequisites: MTH 21404, NUR 30303, and NUR 30707 with a grade of “C” or better. (Fall)

NUR 40909: Nursing Leadership and Nursing in the Community. (9 sem. hrs.) 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. Prerequisite: Current Ohio active R.N. license and nursing professional liability insurance; clinical clearance; NUR 30808, NUR 40303, and NUR 41404, all with a grade of “C” or better in theory; and NUR 30808 with a “satisfactory” designation for clinical performance. (Spring)
NUR 41303: Issues in Nursing Practice II. (3 sem. hrs.) This course is concurrent with NUR 40909 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. Prerequisite: NUR 30303; NUR 30707; NUR 31303.; NUR 40303; and NUR 41404, all with a grade of “C” or better in theory; and NUR 30707 with a “satisfactory” designation for clinical performance. (Spring)

NUR 41404: Transcultural Nursing. (4 sem. hrs.) 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. Prerequisites: None. (Fall)

NUR 48801-03 Selected Topics in Nursing. (1-3 sem. hrs.) A study of topics not included in current nursing course offerings or topics of more in-depth study than covered in current nursing courses. The format may be independent or directed studies, a research project, a community activity or project, a scheduled class or seminar. The course may be repeated for credit upon change of the course topic. The topic or project may be selected by a group of students and/or the nursing instructor. Prerequisite: Approval of the nursing instructor and the Dean of the College of Health and Behavioral Sciences. (On Demand)

OT - Office Technology

OT 10003 Beginning Keyboarding (3 sem. hrs.) 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 improve keyboarding speed and accuracy. Students are expected to attain a speed of 40 wpm for three to five minutes. Two-hour lecture, two-hour lab. Course fee required. (Fall)

OT 10403 Keyboarding I (3 sem. hrs.) 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-hour lab. Course fee required. (Fall)

OT 11403 Keyboarding II – Executive (3 sem. hrs.) 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. One-hour lecture, two-hour lab. Course fee required. (Spring)

OT 11503 Keyboarding II – Legal (3 sem. hrs.) 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-hour lab. Course fee required. (Spring)

OT 11603 Keyboarding II – Medical (3 sem. hrs.) 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-hour lab. Course fee required. (Spring)

OT 23202 Office Machines (2 sem. hrs.) 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-hour lab. Course fee required. (Fall)

OT 24203 Records/Database Management (3 sem. hrs.) This course emphasizes principles and practices of effective records management for manual and electronic records systems. Students are taught the indexing procedures and rules developed by ARMA that apply when working with computer or paper files. Emphasis is placed on the need to understand the record life cycle within which information functions in the organization. This course is a blended approach to the study of records management: traditional paper-based and electronic using Microsoft Access. Two-hour lecture, two-hour lab. Course fee required. (Fall)

OT 27102 Executive Machine Transcription (2 sem. hrs.) This is a beginning to intermediate course for students to acquire the skills necessary to transcribe from recordings (tapes) using a computer. By transcribing these administrative office tapes, 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. One-hour lecture, three-hour lab. Course fee required. (Spring)

OT 27202 Legal Machine Transcription (2 sem. hrs.) Students learn how to format legal correspondence and documents directly 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. One-hour lecture, three-hour lab. Course fee required. (Spring)

OT 27302 Medical Machine Transcription (2 sem. hrs.) 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 11603, OT 13302, and OT 14302. One-hour lecture, three-hour 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. In this course, the 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 28502 OT Spreadsheet Applications (2 Credit Hours). In this course, the student will learn the spreadsheet application, Microsoft Excel 2010 or newer. The course is designed to be relevant and authentic to the office technology students as it connects content to context or skills to the environment in which they will be used. Instruction focuses on integrating competencies from the areas of information, technology, basic skills and thinking skills. Prerequisites: OT 10003 or evidence of correct keyboarding skills. One-hour lecture, three-hour lab. Course fee required. (Fall)

OT 28603 Word/Information Processing Applications (3 sem. hrs.). This course is designed for students who want to learn how to use the Microsoft Word 2016 word processing program to create professional-looking documents for school, work, and personal communication needs. Upon completion of the course students can expect to be proficient in using Word to organize, analyze, and present information. Prerequisites: OT 10003 or evidence of correct keyboarding skills. Two-hour lecture, two-hour lab. Course fee required. (Spring)

OT 28801-03 Selected Topics in Office Technology (1-3 sem. hrs.) 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 (1-3 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) This course involves an examination of various moral issues (e.g. relativism vs. absolutism), concepts (e.g. duties, rights, values, principles, etc.), 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 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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. (1-3 sem. hrs.) 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. (1-3 sem. hrs.) 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 sem. hrs.) 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 ideas of freedom, equality, justice, individual rights, government and the good society. (On Demand)

PHR 32203 Philosophy and Cultural Studies. (3 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) This course consists of a study of truth-functional and prepositional logic. (On Demand)

PHR 35103 Knowledge and Reality. (3 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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. (1-3 sem. hrs.) 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. (1-3 sem. hrs.) 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 10104 Pharmacy Technician I (4 sem. hrs.). 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. Students will utilize the PDX® Pharmacy Management Software throughout the course as part of their training. Course fee required. Professor permission required.
Random drug screening will be required during the semester. (Fall)

**PHT 10203 Pharmacy Technician II Clinical (3 sem. hrs.)** This is a practicum (internship) that requires the student to work a minimum of 160 hours total in various pharmacy settings during the semester. The student should expect to work 10 hours per week in both a retail and hospital pharmacy. If the preceptor of any rotation dismisses the student, the student must withdraw from the entire course. The student may finish the other PHT courses, but he or she will not receive a certificate of completion from the program at the end of the semester. Prerequisites: A grade of “C” or better in PHT 10103, PHT 11103, PHT 12103, and PHT 13203. In addition, all required pre-rotation information (i.e. background checks, drug tests) required by the clinical sites must be turned in BEFORE the first day of class. Professor permission required. Course fee required. (Spring or Summer)

**PHT 11103 Pharmacology for Health Care Related Careers I (3 sem. hrs.)** This course will present a basic understanding of drugs, including their mechanisms of action, properties, uses, applications and side effects. The student will be required to learn the brand name and generic names, pronunciation, uses, and side effects for approximately 150 of the 300 most popular drugs in the U.S. The rest of the list will be covered in Pharmacology HCRC II. Course fee required. (Fall)

**PHT 11203 Pharmacology for Health Care Related Careers II (3 sem. hrs.)** This course is a continuation of Pharmacology for Health Care Related Careers I (PHT 11103). This course will present a basic understanding of drugs, including their mechanisms of action, their properties, uses, and side effects for the remainder of the list of top-selling U.S. drugs not covered in the preceding class. Prerequisite: At least a “C” average in PHT 11103. Course fee required. (Spring)

**PHT 12103 Applied Science for Health Care Related Careers I (3 sem. hrs.)** This course will include basic anatomy and physiology of the human body, as well as the necessary microbiology and biochemistry needed to gain a broad understanding of how the body functions. Special emphasis will be placed on disease states, abnormal body conditions, and the drugs that treat them. Course fee required. (Fall)

**PHT 12203 Applied Science for Health Care Related Careers II (3 sem. hrs.)** This course is a continuation of Applied Science for Healthcare Related Careers I. 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 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 sem. hrs.)** 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 covered along with metric conversions, temperature conversions, and dosage calculations. Calculations necessary for compounding prescriptions and those involved with the preparation of intravenous medications will be included. Prerequisite: At least a “C” in high school or college Algebra.

Course fee required. (Fall)

**PHT 14204 Pharmacy Technician II (4 sem. hrs.)** This 4-hour course is a continuation of the Pharmacy Technician I course. It 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. Emphasis will be placed on the pharmacy technician’s role in compounding and hospital pharmacy settings. Students will continue their training and use of the Pharmacy Management Software. Prerequisites: A grade of “C” or better in PHT 10104. Course fee required. (Spring)

**PHT 14302 Pharmacology for RCP (2 sem. hrs.)** This two-credit hour course is a presentation of topics related to basic concepts in pharmacology, drug groups commonly used in respiratory therapy; their physiologic mechanisms; their dosages, available formulations, pharmacological mode of action; and related drug product review. Course fee required. (Spring)

**PHT 14303 Pharmacy Math for RCP (3 sem. hrs.)** This three-credit hour course is a presentation of topics related to basic concepts in pharmacology, drug groups commonly used in respiratory therapy; their physiologic mechanisms; their dosages, available formulations, pharmacological mode of action; and related drug product review. Prerequisite: Acceptance into Respiratory Therapy Program. (Fall)

**PHT 18801-03 Selected Topics in Pharmacy Technician (1-3 sem. hrs.)** 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 sem. hrs.)** This is a survey of mechanics, energy, waves, sound, and atomic and nuclear physics. There are thirteen one-hour labs. Prerequisite: MTH 11203 (C or better), TEC 11704 (C or better) MTH 21403 or placement into higher level math course via placement exam score. ENG 10503 (C- or better) or placement into higher-level English course via placement exam score. (Fall, Spring)

**PHY 17505 General Physics I with Algebra (5 sem. hrs.)** 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-hour lecture, two-hour lab. Course fee required. Prerequisites: TEC 11804, MTH 14505, MTH 14403, or permission of the instructor. (Fall)
PHY 18505 General Physics II with Algebra (5 sem. hrs.). 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-hour lecture, two-hour lab. Course fee required. Prerequisite: PHY 17505 or permission of the instructor. (Spring)

PHY 20505 General Physics I with Calculus (5 sem. hrs.). 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-hour lecture, two-hour lab. Course fee required. Prerequisite: PHY 15105 or permission of the instructor. (On Demand)

PHY 21505 General Physics II with Calculus (5 sem. hrs.). 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-hour lecture, two-hour lab. Course fee required. Prerequisite: PHY 20505 or permission of the instructor. (On Demand)

PHY 28801-05 Selected Topics in Physics (1-5 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 (1-3 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). A study of structures, behaviors, and processes of contemporary political systems. Prerequisite: At least junior status or permission of the instructor. (Fall)

POL 45103 International Relations/Foreign Policy (3 sem. hrs.). 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 instructor. (Spring)

POL 49703 Practicum in Political Science (3 sem. hrs.). This is a practicum designed to provide an opportunity for students in their junior and senior years to earn academic credit by serving as interns in various agencies or offices. Each practicum must be supervised and approved by an instructor of record, who must be a member of the faculty of the University of Rio Grande, and approved by the Dean of the College of Arts and Sciences. The practicum site is to be determined on an individual basis, and it
must be acceptable to the student and approved by the instructor of record. The instructor will negotiate with the site supervisor to establish mutually acceptable learning experiences and job expectations before the student begins the practicum. The instructor of record will be responsible for course requirements, student accountability, and the assignment of a final grade. The instructor and the Dean will ensure that the practicum complies with the educational and administrative policies of the University. (On Demand)

**PSY - Psychology**

**PSY 11103 (TM) General Psychology.** (3 sem. hrs.) Introduction to individual human behavior, history, and development of psychology, present definition of psychology, perception and sensation, intelligence and its measurement, maturation, principles of learning, motivation and emotions, personality, abnormal behavior, socialization, and group influence. (Fall/ Spring/Summer)

**PSY 21103 Human Growth and Development.** (3 sem. hrs.) A longitudinal study of human development stressing the importance of developmental sequences in motor, emotional, social, language, intelligence, and imaginative life, and the importance of developmental tasks and roles that parents, teachers, and other concerned adults play in their accomplishments. Prerequisite: PSY 11103 (“C-” letter grade or better). (Fall, Spring)

**PSY 21401 Statistics for the Behavioral Sciences Co-Requirement** (1 sem. hr.) This course accompanies PSY 21503 and serves to supplement course material with additional practice and mentorship. It is designed to help those students whose placement test scores and/or mathematical abilities do not meet college-level expectations. (Fall)

**PSY 21503 Statistics for the Behavioral Sciences.** (3 sem. hrs.) This course examines the methods, applications, and interpretation of statistics as applied to the behavioral sciences. Topics include: calculating and presenting descriptive data, correlations and simple regressions, when and how to use parametric and nonparametric techniques including t-tests, regression, ANOVA, and organization, interpretation, and presentation of real-world data. This course differs from similar courses offered in the Mathematics Department in that emphasis is placed on practical applications of these concepts and principles, providing students with the ability to select and apply appropriate techniques for analyzing data and the ability to critically evaluate and understand research data analyses when found in written materials such as newspapers, research reports, and other analytical media. Prerequisite: PSY 11103 (C- or better), MTH 11203 or its equivalent (C- or better). (Fall)

**PSY 22804 Memory and Cognition.** (4 sem. hrs.) The purpose of this course is to introduce the student to human cognition: our ways of coming to know about the world and about one another. This course will concentrate on the classic topics in adult cognition: perception, memory, attention, categorization, problem solving, reason, and decision-making. Special attention will be paid to the relationship between logic and the psychology of reasoning. Prerequisites: PSY 11103 (C- or better). (Fall)

**PSY 25203 Behavior Modification.** (3 sem. hrs.) 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 that enhance or impair learning. Prerequisite: PSY 11103 (“C-” letter grade or higher). Course fee required. (Fall, Spring)

**PSY 26204 Research Methods.** (4 sem. hrs.) An advanced study of the statistical, ethical, and practical aspects of experimental research design, implementation, and analysis. Research Methods is designed to provide students with experience and information about research methods used in Psychology and the behavioral sciences. Students will learn how to study human brain processes by observing human behavior using established scientific principles. The course will consist of lecture, discussion and research sessions. The lecture and discussion portions of the courses will be devoted to presenting background material associated with various concepts and topics that are essential to understanding and conducting psychological research. The research portion of the courses is devoted to illustrating and providing hands-on experience with many of these concepts and topics. Some areas that will be explored included: ethics, data interpretation, experimental design and planning, conducting and presenting research based on student ideas. Prerequisites: (All with “C-”: letter grade or higher) PSY 11103, PSY 21503. (Spring)

**PSY 29901-03 Directed Studies in Psychology.** (1-3 sem. hrs.) 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 Behavioral Sciences. (On Demand)

**PSY 33103 Organizational Psychology.** (3 sem. hrs.) 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 sem. hrs.) 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 sem. hrs.) 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, Erikson’s theory of psychosocial development, and 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 34203 Physiological Psychology. (3 sem. hrs.) This course studies the physiological and biological bases of human behavior, including in-depth treatment of neural communication, and examination of current research into mechanisms underlying emotion, motivation, learning, and other complex behavior. Prerequisites: BIO 11404 ("C-" letter grade or higher), PSY 22803 (C- or better)

PSY 35103 Psychological Tests and Measurements. (3 sem. hrs.) 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 36103 Sensation and Perception (3 sem. hrs.) This course examines the way the brain encodes stimulus information that results in sensations and perceptions. We will utilize scientific research and concepts as we explore across all modalities with a focus on visual perception. We will also study the perceptual experiences of attention, time, and consciousness. For a more in-depth understanding of these processes, we will look at scientific techniques that measure perceptual experiences. Prerequisites: PSY 11103 ("C-" letter grade or higher) and PSY 34203 ("C-" letter grade or higher). (On Demand)

PSY 37103 Personality. (3 sem. hrs.) An examination of several prominent personality theories and their present applications. Prerequisite: PSY 11103 ("C-" letter grade or higher). (Spring 2019, 2021)

PSY 47103 Abnormal Psychology. (3 sem. hrs.) 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 38801-03 Selected Topics in Psychology. (1-3 sem. hrs.) A seminar course involving the study of some aspect of psychology that does not fall under one of the other course descriptions. Prerequisite: PSY 11103 ("C-" letter grade or higher). (On Demand)

PSY 39503 Laboratory Experience I (3 sem. hrs.) This course serves as an instruction to laboratory research in psychology. Students can begin work on their own project or work on current research taking place in the laboratory of their choice. The nature of laboratory research varies by project and by stage of project, so duties may include, but are not limited to, training on laboratory equipment and procedures, literature review and analysis, writing an APA formatted research proposal, preparing laboratory documents, participant recruitment, data collection and/or analysis, presenting in formal settings and/or at professional conferences, laboratory maintenance, and general promotion of psychology and science. Prerequisites: PSY 26204 and instructor approval. (On Demand)

PSY 39902-06 Independent Study in Psychology. (2-6 sem. hrs.) Independent study and/or research under the supervision of a faculty member of Psychology. May include directed research and readings, formal in-depth study of a topic of special interest to the student, individual projects, special education experiences, or a practicum in which theories and their practical applications are brought together in a single educational experience. Prerequisites: Sophomore standing, completion of at least six credit hours in the discipline, sponsorship by a full-time Psychology faculty member, and approval of the Dean of the College of Behavioral Sciences. (On Demand)

PSY 42203 Counseling Skills and Theoretical Foundations. (3 sem. hrs.) 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. 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. Prerequisite: PSY 11103 ("C-" letter grade or higher). (Spring)

PSY 47603 History and Systems of Psychology. (3 sem. hrs.) 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 and Junior/Senior standing. (Spring 2019, 2021)

PSY 47901-06 Community Practicum in Psychology. (1-6 sem. hrs.) A field experience focusing on observation and participation in the activities of an agency or organization that provides psychological, mental health, educational, or research services in the community. May be repeated once for a maximum of six (6) credit hours. 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 Behavioral Sciences. (On Demand)

PSY 49503 Laboratory Experience II (3 sem. hrs.) This course serves as an advanced laboratory experience. Students can continue/complete their own project and/or take on a leadership role as Lead Research Assistant. Both roles include organizing and
conducting laboratory research. Prerequisites: PSY 39503 and instructor permission. (On Demand)

**PSY 47903 Senior Capstone** (3 sem. hrs.) This is a research and writing course in which students will practice oral and written communication skills necessary for entering graduate school or the job market. Students will investigate a topic, conduct a full literature review, and write one of two term papers. Prerequisites: PSY 26204 and Junior/Senior level standing. (Spring 2018, 2020)

**RAD - Radiological Technology**

**RAD 10101 Introduction to Radiologic Sciences** (1 sem. hrs.) Introduces students to the field of radiology. The course provides an overview of the role and responsibilities of a radiographer. It also covers the fundamental concepts of ethics and law issues. One-hour lecture. Internet course fee required. Prerequisites: Met RAD academic requirements and official acceptance into the RAD program. (Fall Online)

**RAD 10202 Radiation Physics** (2 sem. hrs.) Introduces the principles of x-ray production, types of radiation, interactions, and applications in diagnostic imaging. Two-hour lecture. Course fee required. Prerequisites: Met RAD academic requirements and official acceptance into RAD program. (Fall)

**RAD 11103 Radiographic Positioning and Imaging Procedures I** (3 sem. hrs.) Introduces students to human anatomy, patient positioning, imaging principles, and evaluation criteria used in clinical practice. The course focuses on the following areas: chest, abdomen, and upper appendicular skeleton. Two-hour lecture, three-hour lab. Course fee required. Prerequisites: Met RAD academic requirements and official acceptance into RAD program. (Fall)

**RAD 11204 Radiographic Positioning and Imaging Procedures II** (4 sem. hrs.) The course focuses on the following areas: lower appendicular and axial skeletons. Builds upon the knowledge gained in RAD 11103. Three-hour lecture, two-hour lab. Course fee required. Prerequisites: RAD 11103 and met RAD academic requirements. (Spring)

**RAD 11304 Imaging and Processing I** (3 sem. hrs.) Provides a knowledge base in factors that control image production process and image quality criteria for taking and evaluating radiographic images. Problem solving techniques and factors that affect image quality are introduced. Four-hour lecture. Internet hybrid fee required. Prerequisites RAD 10202 and met RAD academic requirements. (Spring)

**RAD 11401 Clinical Education** (1 sem. hrs.) Provides students an opportunity to perform the skills that they are currently obtaining in RAD 10101 and RAD 11103. Focus is on the following areas: clinical orientation, imagining principles and routine views of clinical sites, imaging equipment used at clinical practice, patient positioning of chest, abdomen, and upper appendicular skeleton. Eight (8) clinical hours. Prerequisites: Met RAD academic requirements, official acceptance into the RAD program, CPR certification, background checks, drug screen analysis as per clinical site, and Trajectys registration fee.

**RAD 11502 Clinical Education I** (2 sem. hrs.) Provides students with an opportunity to perform the skills that they have obtained in RAD 11103, RAD 11204, and RAD 11303. Sixteen (16) clinical hours. Course fee required. Prerequisites: RAD 11401 and met RAD academic requirements. (Spring)

**RAD 11601 Computed Tomography** (1 sem. hr.) Introduces 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. One-hour lecture. Internet hybrid course fee required. Prerequisites: RAD 21503 and met RAD academic requirements. (Spring)

**RAD 21102 Radiographic Positioning and Imaging Procedures III** (2 sem. hrs.) This course focuses on the following areas: select axial exams, pediatrics, trauma, mobile surgical, and select special procedures. Builds upon the knowledge gained RAD 11204. Two-hour lecture. Prerequisites: RAD 11204 and met RAD academic requirements. (Summer)

**RAD 21204 Clinical Education II** (4 sem. hrs.) Provides students with an opportunity to perform the skills that they have obtained in RAD 11401 and RAD 11502. Thirty-two (32) clinical hours. Course fee required. Prerequisites: RAD 11502 and met RAD academic requirements. Summer

**RAD 21302 Radiobiology and Radiation Protection** (2 sem. hrs.) Covers the interactions of radiation with living systems. It also presents the biological responses that occur due to different doses of radiation exposures. Two-hour lecture. Course fee required. Prerequisites: RAD 21204 and met RAD academic requirements. (Fall)

**RAD 21402 Imaging and Processing II** (2 sem. hrs.) Introduces the imaging equipment and its design used in clinical practice. Establishes the basic knowledge of types of computers and software also used in the clinical practice. Two-hour lecture. Prerequisites: RAD 11304 and met RAD academic requirements. (Fall)

**RAD 21503 Clinical Education III** (3 sem. hrs.) Provides students an opportunity to perform the skills that they have obtained in RAD 11401, RAD 11502 and RAD 21402. Twenty-four (24) clinical hours. Prerequisites: RAD 21402 and met RAD academic requirements. Course fee required. (Fall)

**RAD 21701 Radiologic Pathology** (1 sem. hr.) Introduces students to pathological conditions and basic pharmacology concepts. Describes the systemic classifications of diseases in terms of etiology, types, common sites, complications, and prognosis. Radiographic appearances, procedures, and techniques including the diagnostic contrast agents and/or intravenous medications used in imaging diseases and trauma are examined. One-hour lecture. Course fee required. Prerequisites: RAD 21102 and met RAD academic requirements. (Fall)
RAD 21801 Basic Radiographic Seminar (1 sem. hr.)
Provides students an opportunity to begin refining the knowledge that they have obtained throughout their studies in order to prepare to take the National Certification Exam in Radiography. Course fee required. Prerequisites: RAD 21204, RAD 21102, and met RAD academic requirements. (Fall)

RAD 21802 Radiographic Seminar (2 sem. hrs.)
Provides students an opportunity to refine the knowledge that they have obtained throughout their studies in order to prepare to take the National Certification Exam in Radiography. It also prepares students for job interviews upon graduation. Course fee required. Prerequisites: RAD 21801 and met RAD academic requirements. (Spring)

RAD 21903 Clinical Education IV (3 sem. hrs.)
Provides the students an opportunity to perform the skills that they have obtained in RAD 11502, RAD 21204, and RAD 21503. Twenty-four (24) clinical hours. Course fee required. Prerequisites: RAD 21503, and met RAD academic requirements. (Spring)

RAD 28801-04 Selected Topics in Radiologic Technology (1-4 sem. hrs.)
Offers 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 (1-3 sem. hrs.)
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 10204 Respiratory Fundamentals I (4 sem. hrs.)
This four credit hour course will introduce the student to the role of the Respiratory Care Professional, hospital interactions and procedures, and ethical issues. The student will be briefed on issues of safety and infection control. The student will begin learning respiratory anatomy and physiology and patient assessment. Safe handling of medical gases and administration of medical gas therapy will be covered. The students will learn the basics of medicines used in Respiratory Therapy as well as various techniques of delivering Respiratory Therapy. Students will be given introductory lessons in lab and ABG analysis and an introduction to EKG technology. Students will be instructed in the importance of accurate medical record keeping and of verification of physician’s orders. Additionally the student will attend a seminar outlining the techniques of basic life support and will become BLS certified. Three-hour lecture, three-hour lab. Course fee required. Prerequisite: acceptance into the Respiratory Therapy program. Must also register for RCP 10204L. (Fall)

RCP 10403 Cardiopulmonary Pathophysiology (3 sem. hrs.)
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. The student completing the course is expected to have a firm understanding of the diseases discussed. Understanding the nature of the disease allows rational decisions in providing treatment and patient education. Three-hour lecture. Prerequisite: successful completion of program sequence. Course fee required. (Fall)

RCP 10501 Respiratory Practicum I (1 sem. hr.)
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. Ten to twelve (10-12) clinical hours a week, which include pre/post seminar. Course fee required. Prerequisite: successful completion of program sequence. (Spring)

RCP 11502 Respiratory Practicum II (2 sem. hrs.)
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 11603 Respiratory Fundamentals II (3 sem. hrs.)
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-hour lecture. Course fee required. Prerequisite: successful completion of program sequence. (Spring)

RCP 20103 Management of the Critical Patient (3 sem. hrs.)
This three credit hour course focuses the student on analysis and application of Respiratory Therapy procedures in management of the critically ill patient. The interaction of the cardiopulmonary system with other life-threatening conditions is examined. Students will utilize knowledge and judgment gained in previous courses to discern the best course of therapy for complex cases.
Three lecture hours a week. Prerequisite: successful completion of program sequence. (Fall)

**RCP 20104 Mechanical Ventilation Management Technology** (4 sem. hrs.) 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. Monitoring, quality control, and the ability to solve clinical problems relating to mechanical ventilation are emphasized. Three-hour lecture, three-hour lab. Course fee required. Prerequisite: successful completion of program sequence. (Fall)

**RCP 20203 Neonatal and Pediatric Respiratory Care** (3 sem. hrs.) 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-hour lecture, three-hour lab. Course fee required. Prerequisite: successful completion of program sequence. (Fall)

**RCP 20502 Respiratory Practicum III** (2 sem. hrs.) 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 sem. hrs.) 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-hour lecture. Prerequisite: successful completion of program sequence. (Fall)

**RCP 21302 Cardiopulmonary Diagnostics** (2 sem. hrs.) This two credit hour course is based on the foundation gained from Respiratory Fundamentals I & II and is designed to provide the student with detailed knowledge of procedures. Emphasis will be for students to analyze data and properly apply procedures. Students will continue the study of hemodynamics and cardiac testing and monitoring. Students will learn to navigate the physiology of sleep, the process of rehab and homecare for the pulmonary patient, and the effect of nutrition and age-specific dynamics across the continuum of care. The role of case management and reimbursement issues will be explored. Analysis and application of knowledge learned throughout the program will be tested through scenarios. Management of emergency patients and disaster preparedness will be included. Course fee required. Prerequisite: successful completion of program sequence. (Fall)

**RCP 21502 Respiratory Practicum IV** (2 sem. hrs.) 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 21602 Respiratory Practicum V** (2 sem. hrs.) This course is designed to provide the students an opportunity to continue to perform the skills they have obtained in previous respiratory courses. Emphasis is 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 Open Heart Surgery, home care, sleep labs, PICU, NICU, CTICU and ERs. The student will receive experience in practicing computer clinical simulations. Twenty-Four (24) clinical hours a week (average). Course fee required. Prerequisite: successful completion of program sequence. (Summer)

**RCP 22502 Cardiopulmonary Anatomy and Physiology** (2 sem. hrs.) This is a two credit hour course detailing the anatomy and physiology of the respiratory system. Detailed instruction regarding breathing mechanisms and the control of ventilation will be taught. The student will learn transport and diffusion of gases, acid-base balance, and ventilation/perfusion. The student will be instructed about the circulatory system, cardiopulmonary equations, and hemodynamics as well as function of the renal system. The structure and function of the chest cage, mechanics of breathing, and control of respiration are also included. Course fee required. Prerequisite: successful completion of program sequence. (Spring)

**RCP 28801-03 Selected Topics in Respiratory Therapy** (1-3 sem. hrs.) 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 (1-3 sem. hrs.) 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 sem. hrs.). 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, Summer)

SOC 20103: Honors Service Learning (3 sem. hrs.). A field experience for Honors students that will help them develop leadership skills and apply sociological theories to a practical setting. Each student will spend a minimum of sixty clock hours in a service-learning experience. Sites are approved by the Director of the Honors Program and the course instructor. The class meets for one class period a week to discuss readings and share learning from their field experiences. Recommended: SOC 25103: Social Problems, Honors Section. (Spring)

SOC 24103 Minority Groups (3 sem. hrs.). 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 sem. hrs.). Applies sociological methods and theories to analysis of current social problems and development of possible solutions in U.S. and global contexts. Prerequisite: SOC 11103. (Fall)

SOC 25403 Marriage and the Family (3 sem. hrs.). 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 sem. hrs.). 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. (On Demand)

SOC 27203/37203 Introduction to Aging (3 sem. hrs.). 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 sem. hrs.). 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 (1-3 sem. hrs.). Topics to be announced in the schedule. (On Demand)

SOC 29901-03 Directed Studies in Sociology (1-3 sem. hrs.). 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 Behavioral Sciences. (On Demand)

SOC 36103 Social Research (3 sem. hrs.). 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 sem. hrs.). 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 (1-3 sem. hrs.). Topics to be announced in the schedule. (On Demand)

SOC 49901-03 Directed Studies in Sociology (1-3 sem. hrs.). 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 Behavioral Sciences. (On Demand)
SPA - Spanish

SPA 11103 Elementary Spanish I (3 sem. hrs.). 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 11103 Elementary Spanish II (3 sem. hrs.). 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 (1-3 sem. hrs.). A seminar in some aspect or aspects of literature in Spanish. (Spring 2013)

SPA 20103 Intermediate Spanish I (3 sem. hrs.). 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 sem. hrs.). 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 sem. hrs.). 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)

SPA 24103 Advanced Conversation and Composition (3 sem. hrs.). 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 (1-3 sem. hrs.). 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. (On Demand)

SPA 33803 Spanish Linguistics (3 sem. hrs.). 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)

SPA 38801-03 Selected Topics in Intermediate Spanish (1-3 sem. hrs.). 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 28801-04 Selected Topics in Social Work (1-4 sem. hrs.). 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

SWK - Social Work

SWK 21103 Introduction to Social Work (3 sem. hrs.). 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 and mission of social work, professional values, 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 sem. hrs.). 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 of these forces on the development of individuals. Prerequisites: SWK 21103, BIO 11404, ENG 11203, PSY 11103, SOC 11103, SOC 24103, and HPE 10101. (All may be taken concurrently.) (Fall)

SWK 23103 Social Welfare Institutions (3 sem. hrs.). 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. Welfare philosophies will be identified in the application of policy and service evaluation. Prerequisites: SWK 21103, POL 11103, HIS 13203, and SOC 25103. (All may be taken concurrently.) (Fall)

SWK 24103 Fundamentals of Generalist Practice (3 sem. hrs.). 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: MTH 21404, SWK 21103, SWK 22103, SWK 23103. (Spring)

SWK 24203 Interviewing Skills (3 sem. hrs.). 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 sem. hr.). 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 (1-4 sem. hrs.). 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 Health and Behavioral Sciences. (On Demand)

**SWK 28901-02 Social Work Field Observation and Reporting** (1-2 sem. hrs.). 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 Director. Prerequisite: SWK 24103 (May be taken concurrently.). (Fall, Spring, Summer)

**SWK 29901-03 Directed Studies in Social Work** (1-3 sem. hrs.). 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 Health and Behavioral Sciences. (On Demand)

**SWK 32103 Human Behavior and Social Environment II (or HBSE II)** (3 sem. hrs.). 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 sem. hrs.). 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 – Group Work** (2 sem. hrs.). An introduction to the use of group work 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 sem. hrs.). An analysis of macro organizational 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. (Spring)

**SWK 35201 Advanced Group Supervision** (1 sem. hr.). 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** (1-4 sem. hrs.). 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 the School Chair, and approval by the Dean of the College of Health and Behavioral Sciences. (On Demand)

**SWK 38901-03 Social Work Practicum** (1-3 sem. hrs.). 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 Director. Prerequisites: SWK 24103 and SWK 28902. (Fall, Spring, Summer)

**SWK 42103 Social Welfare Policy Analysis** (3 sem. hrs.). An advanced course in social welfare philosophy analyzing the relationship between social problems, social policy, and social service. The seminar orientation encourages 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 sem. hrs.). 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 sem. hrs.). 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 sem. hr.). 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 sem. hrs.). 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 Director. Prerequisite: SWK 44103 (May be taken concurrently.). (Fall, Spring, Summer)

**SWK 48705 Social Work Field Placement B** (5 sem. hrs.). 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. Sites are approved by the Field Placement Director. Prerequisites: SWK 46103 and SWK 48605. (Fall, Spring, Summer)

**SWK 49901-04 Directed Studies in Social Work** (1-4 sem. hrs.). 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 Health and Behavioral Sciences. (On Demand)

**TEC - Technology**

**TEC 11704 Applied Technical Mathematics I.** (4 sem. hrs.). 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-hour lecture, two-hour 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 sem. hrs.). 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-hour lecture, two-hour lab. Prerequisite: TEC 11704 Applied Technical Mathematics I. (Spring)

**TEC 18801-03 Selected Topics in Technology.** (1-3 sem. hrs.) 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 sem. hrs.). A course designed to push the students to a higher level of accomplishment and add to their administrative professional skills. This course pulls together the skills learned previously in other courses and adds to their knowledge and understanding of the technical and human-relation (customer-relation) skills necessary to succeed in their chosen profession. Administrative professionals are required not only to have technology skills but also a broad range of human-relation and critical-thinking skills. Prerequisite: OT 10403, Keyboarding I, or previous typing experience with permission from the instructor of this course. Course fee required. (Spring)

**TEC 49901-03 Directed Studies in Technology.** (1-3 sem. hrs.) Independent study and/or research under the supervision of an instructor in any of the technology areas offered in the School of 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: Junior or Senior standing and permission of the instructor. Course fee may be required. (On Demand)

**THR - Theater**

**THR 10503 Introduction to Theatre.** (3 sem. hrs.). 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 sem. hrs.). 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 Even)

**THR 25403 Theatre Arts.** (3 sem. hrs.). 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 sem. hrs.). 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 Even)

**THR 28801-03 Selected Topics.** (1-3 sem. hrs.). 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 sem. hrs.). 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 Even)

**THR 38801-3 Selected Topics.** (1-3 sem. hrs.). 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 Programs

Bunce School of Education
College of Arts and Sciences
Anniversary Hall
740.245.7328 office; 740.245.7523 fax

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, Business Office, 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.

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. 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.

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
3. 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.
4. Workshop credits are non-transferable, and do not count toward graduate degree requirements.
5. To be accepted, all transfer credits must be earned from an accredited institution within the past seven years.

Coursework and Clinical/Practicum
1. 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.
2. 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.
3. 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.
4. 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.

5. 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.

6. 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 15 for summer posting; November 15 for fall posting, and January 15 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
MEd Students: Graduate MEd students must maintain a grade point average of 3.0, 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 3.0 grade point average will be placed on “Academic Probation.” Students who earn a grade point average of less than 3.0 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 suspension 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.

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 used at the Oral Exit Exam.

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 Office of the Registrar for graduation application and instructions.
6. Intervention Specialist and Educational Leadership students must contact the School of Education 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.

Master of Education
Bunce School of Education
College of Arts and Sciences
Anniversary Hall
740.245.7167 office; 740.245.7175 fax

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 unit has been approved by the Ohio Department of Education and accredited by the Council for the Accreditation of Educator Preparation (CAEP), 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, 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 include 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, coursework in multicultural relations, and an exceptional learner course. Licensure requirements are subject to change.

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 .................................. 30

+ Required for licensure
* Required for Master’s Degree

Master of Education – Intervention Mild/Moderate (4055)

EDT 53003 Nature & Needs of Students with Mild/Moderate Disabilities+* .......................... 3
EDT 53103 Diagnostic & Ethical Practices+* ................................ 3
EDT 53203 Clsrn & Behavior Mgmt 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 Voc Trans for Students with Mild/Moderate Educational Needs+* ................................ 2
EDT 53902 Instructional Strategies Practicum+* ................................ 2
Total Major Concentration hours .................................... 20

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 .................................. 33

+ Required for licensure
* Required for Master’s Degree

Master of Education – Educational Leadership

Bunce School of Education
College of Arts and Sciences
Anniversary Hall
740.245.7176 office; 740.245.7175 fax

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 – 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 unit has been approved by the Ohio Department of Education and accredited by the Council for the Accreditation of Educator Preparation (CAEP), 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 ensure 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 I+*...................................... 2
Total Major Concentration hours ................................25

+ Required for licensure
* Required for Master’s Degree

* 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 and
   Secondary Grades

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

Master of Education – Integrated Arts Concentration

Bunce School of Education
College of Arts and Sciences
Anniversary Hall
740.245.7167 office; 740.245.7175 fax

Description of the Program
This program evolved from the belief that all children can learn and that children possess multiple intelligences. Because children learn in different ways and need active involvement, teachers must focus on the process of learning through experiences. Children need creative activity that can offer thematic and topical ways of relating to all subject areas. We believe in arts integrated education, or education in and through the arts. This unique master’s degree program may be
completed by attending two four week summer sessions per year and internet based classes Fall and Spring. Internet courses are offered during the academic year. The Internet courses allow an aggressive student to complete the program in slightly more than one year by taking Internet classes throughout the traditional school year and studio classes in summers. A unique feature of this program is an organized class study trip to New York City and/or other major cultural centers for one week each summer. A minimum of thirty-three (33) credit hours is required to complete the degree program of which a minimum of eight (8) credit hours must be studio activity in art, music, theatre, or a combination of all three disciplines. There will be continual as well as exit assessment of degree candidates by their individual peer/faculty committee based on the development and professional presentation of an individual portfolio.

All of the following Core classes are required and several need to be taken in a specific sequence:

**Core Curriculum:**
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.

Core curriculum:
- MIC 50202 Portfolio ........................................ 2
- MIC 50902 Literacy in Technology ......................... 2
- MIC 50403 Learning Theory ............................... 3
- MIC 50603 Curriculum ....................................... 3
- MIC 50303 Mentoring Models ............................ 3
- MIC 50501 Leaders and Change .......................... 1
- MIC 50802 Educational Research and Evaluation Methods ........................................ 2
- MIC 51101 Grant Writing .................................. 1

Each of the following Fine Arts course must be taken at least once; the ones with an asterisk may be repeated as electives.

- FPA 56101 Functions of the Arts ......................... 1
- FPA 56201 Multicultural Arts .......................... 1
- FPA 56302 Experiential Travel* ....................... 2
- FPA 57001 Experiencing Music* ....................... 1
- FPA 57101 Experiencing Art* ......................... 1
- FPA 57201 Experiencing Theatre* ................... 1
- FPA 57301 Interdisciplinary Experience* .......... 1

The following Fine Arts courses are electives. Select any of these courses, and repeat any of the required Fine Arts courses (with an asterisk) for a total of 8 credits.

- FPA 56402 Appalachian Culture ....................... 2
- FPA 56502 Video in the Classroom ................. 2

FPA 56302 Experiential Travel* ......................... 2
FPA 57001 Experiencing Music* ....................... 1
FPA 57101 Experiencing Art* ......................... 1
FPA 57201 Experiencing Theatre* ................... 1
FPA 57301 Interdisciplinary Experience* ......... 1

**The Portfolio**
The portfolio is a selective representation of the Fine Arts graduate student’s total program of scholarship at the University of Rio Grande. The graduate student will prepare a seven-page portfolio abstract with supporting exemplary papers, projects, presentations, audios and videotapes, and journals to place in the portfolio. The graduate student will make three presentations of the portfolio to the graduate faculty advisor/mentor and interested graduate students. Students who select the Integrated Arts Concentration will make the third presentation of the portfolio as their final project.

**Master of Education – Athletic Coaching Leadership Concentration**

**Bunce School of Education**
College of Arts and Sciences
Anniversary Hall
740.245.7167 office; 740.245.7175 fax

The University of Rio Grande Master of Education in Classroom Teaching Program is designed for teachers and others who are interested in using an interdisciplinary approach to teaching, learning, and student support. Our program is based on Howard Gardner’s “Theory of Multiple Intelligences.” Gardner believes that the human mind learns through at least eight different intelligences. We emphasize the arts throughout the curriculum as a catalyst for engaging multiple intelligences and encouraging learning and understanding. This program is given in a series of four-week summer sessions, and one half of our courses are made available over the Internet during the school year.

**Online Learning**
Our Internet courses are designed to be user-friendly and uncomplicated. Every course was team-developed, and each of our design teams is comprised of members that are highly experienced in their field. Making half of our courses available via the Internet during the school year allows teachers in our program to pilot the methodologies that we present in our courses in their own classroom as they accumulate the knowledge. Technical training and support are built into the program to maximize your learning experience using this exciting medium. An added benefit for the student is that the ability to take courses year round will allow one to complete the program sooner!
Athletic Coaching Leadership Concentration

Description of the Program
The primary goal of the Athletic Coaching Leadership (ACL) concentration is to provide well-qualified coaches for all levels of sports programs. The ACL strives to address the diverse needs of the coaching profession and respond to the changing needs of prospective and practicing coaches. The ACL will not be sport specific. It will continue to develop appropriate sport and situation specific program content to ensure the enjoyment, safety and positive skills development of America’s coaches.

The interest in sport activities is at an all-time high in the United States and growing. Some factors that spark this interest involve the nature of the U.S. population. Children of the Baby Boomers are reaching high school and college age, which is also the highest level of participation in organized sports and recreation activities. Interest in women’s sports at every level is growing. This growth has created a need for competent people to fill coaching positions at all levels. The Athlete Coaching Leadership concentration is designed to help meet the challenges generated by this growth.

Today in education many challenges are faced. Coaching leadership faces many of the same challenges as education. This concentration is used as a means to develop self-reliant, self-disciplined, responsible, and capable coaches to lead young men and women. The ACL will continually improve coaches ability to instruct techniques, meet athlete needs, and advance sport performance. This coaching education program prepares both beginning coaches and experienced coaches, therefore we are not limited to teachers and coaches employed by school districts. We will prepare coaches who usually are responsible for short duration, recreational competition. On the other hand, the ACL will prepare experienced coaches who more likely work with elite athletes on a year-round basis and includes high level of competition, emphasizes advanced training, conditioning, techniques, and tactics.

Graduate Admissions
If thinking of applying to the University of Rio Grande, the process can be started immediately by contacting the Office of Admissions at 740.245.77026 or jgodeaux@rio.edu.

All of the following Education Core classes are required and several need to be taken in a specific sequence: Core Curriculum

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.

Core Curriculum
EDT 50201 Portfolio ..............................................1
EDT 50902 Literacy in Technology .........................2
EDT 50403 Learning Theory .................................3
EDT 50603 Curriculum ........................................3
EDT 50303 Teaching Models ...............................3
EDT 50501 Teachers as Leaders .........................1
EDT 50802 Educational Research and Evaluation  
Methods .........................................................3
EDT 51101 Grant Writing ..................................1

Each of the following Athletic Coaching Leadership courses must be taken.
ACL 52002 Prof Leadership Principles in Sports .....2
ACL 52102 Teaching and Admin of Sports ............2
ACL 52202 Training, Conditioning, and Nutrition ..2
ACL 52302 Injuries, Prevention, Care, and Mgmt ...2
ACL 52402 Sport Ethics and Psychology ...............2
ACL 52502 Coaching Skills and Strategies ............2
ACL 52602 Critical Issues of Risk Mgmt in Sports 2
ACL 52702 Growth and Development in Sports ......2
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.

ACL – Athletic Coaching Leadership

ACL 52002 Professional Leadership Principles in Sports. This course will increase awareness of the need for continued professional development and recommend resources for coaching, safety, sport science, and sport-specific information. This course will facilitate and encourage direct contact with sports governing bodies so that coaches can remain up-to-date on the most current rules and any local modifications. A practical field experience and supervision will be the cornerstone of this course. Each coach will conduct the field experience during the year following the offering of the course. (100 hours required) (2 semester hours)

ACL 52102 Teaching and Administration of Sports. This course will dissect the "science" of coaching, which involves building a repertoire of proven instructional methods and understanding the influence of different motivational techniques. The "art" of coaching is knowing and using the right instructional strategy at the right time for the right player. The coaches will study how to use objective and effective procedures for evaluating and selecting players and staff. Adequate attention will be given to administrative details, which is a large part of a successful sports program. This course will teach skills and techniques for positive and effective communication and show the importance of interaction with the public, players, parents, spectators, other coaches, administrators, and the press. (2 semester hours)

ACL 52202 Training, Conditioning, and Nutrition. The course focuses on how proper fitness and sport conditioning determine both success and safety in an athlete’s performance. Emphasis will be on understanding bodily systems and the science of conditioning for athletes. Students will learn how participation in a sport can benefit the overall health of an individual. This goal can be met only if the coach has an understanding of how training, conditioning, and nutrition benefit the athletes. (2 semester hours)

ACL 52302 Injuries, Prevention, Care, and Management. This course will promote the concept that the first priority in sports is the welfare and safety of all players. Coaches will have the understanding that properly trained coaches can reduce the occurrence of injury and minimize the consequences of those that may occur. This course will cover the basic understanding of first aid and CPR and how to assist players with recovery and rehabilitation after injuries. Completion of this course will meet the sport safety training required by all coaches in junior high or high school in Ohio. (2 semester hours)

ACL 52402 Sport Ethics and Psychology. This course will highlight the role coaches play in creating the right environment for nurturing both the human spirit and the spirit of competition. Focus will center on the coaches’ need to learn motivational skills and instructional techniques that recognize the importance of self-esteem to the player’s development and eventual sport success. Identifying historical and current social barriers and promoting the acceptance of cultural differences will help coaches prepare players for both competition and life. Coaches will also identify desirable behaviors and structure experiences to develop such behaviors in each athlete. Coaches will learn to instill a sense of ethical conduct in sport to sustain respect for coaches, athletes, and officials. (2 semester hours)

ACL 52502 Coaching Skills and Strategies. This course will help coaches understand the tactics and strategies of their particular sport in order to teach players the basic skills and give them a functional understanding of how the sport should be played. Coaches will examine how to organize, implement, and evaluate practice sessions relative to program goals over the season. Coaches will prepare a season plan of sequenced instruction that considers the expected progress in player abilities. Identifying and applying specific competitive tactics and strategies appropriate to the age and skill level of players will be discussed, as well as how coaches should assess the strengths and weaknesses of an opponent and document this in usable form. (2 semester hours)

ACL 52602 Critical Issues of Risk Management in Sports. Risk management is the role coaches play in minimizing the potential risks inherent in sport participation. Coaches will be prepared for their role by knowing the scope of their responsibilities, understanding how parents and players can provide informed consent, and conveying the need for appropriate insurance. Coaches will be encouraged to continue their education and offer information concerning resources such as clinics, workshops, membership in professional organizations, and subscriptions to publications that can enhance the coach’s effectiveness to promote the health, safety, and success of the players. (2 semester hours)

ACL 52702 Growth and Development in Sports. A key component in this course is gaining knowledge about the typical course of physical, mental, and psycho-social development of players. Coaches will study differences in body structure, understand basic movement capabilities and biomechanics, and set performance goals that reflect developmental readiness. Information about cognitive development and appropriate expectations for children who are involved in the sport will be included. Coaches will become aware of the psychological and sociological challenges related to peer pressure, body image, and self-esteem issues for players of different ages. (2 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
Graduate Course Descriptions

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. For the Educational Leadership candidate, this class will focus on the role of the principal in developing a school climate that provides the best instructional practices for the students’ needs across the pre-K through grade twelve educational experiences. The course is designed to support the knowledge, skills/performances, and dispositions of the specialized learning associations. These include the Standards for Advanced Programs in Educational Leadership for Principals, Superintendents, Curriculum Directors, and Supervisors (emphasis on Principalship), the Standards for Ohio’s Principals, and the University of Rio Grande School of Education Conceptual Framework (including the Knowledge, Skills, and Dispositions). Throughout course discussions, the candidate will connect his/her study to these SPA and university professional practice standards. Of course, the Ohio Academic Content Standards and the National Content Standards (all fields of study) will be important reference materials that will be reflected throughout the study. Topics covered will include, but are not limited to: teaching strategies, time management strategies, assessment strategies, mastery of learning strategies, classroom management strategies, and effective school communication strategies. This course will be delivered via distance learning (during a fifteen-week semester) or via three, fifty minute periods weekly on campus. Throughout the study candidates will be encouraged to support, collaborate, and share with peers. (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 exceptional needs. (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 special 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 to 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 twenty-one. Students will be required to participate in a twenty-hour (20) 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 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 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 twenty-one 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-hour (10) 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 insure student success in the school to work process. (2 semester hours)

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 base of characteristics and needs of students with mild/moderate disabilities. Lessons will reflect a variety of teaching and modification strategies, including task analysis. Students will use formal and informal materials to collect data that could be used to write an IEP. Materials will be collected into a portfolio of teaching experience and will be evaluated by the course instructor. The portfolio must also include evidence of integrating technology into the curriculum and communication with other professionals in the building and community, as well as correspondence with parents. (3 semester hours)

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. (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 twenty-one. 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 55502 Educational Research and Evaluation Methods:** This course will develop 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. (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 three 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 three 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. (2 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. (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. (As needed) (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-hour (15) 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 and 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 are 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 helps 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 fifteen-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)

*EDT 60002 Internship II for Grades PK-6
*EDT 61002 Internship II for Grades 4-9
*EDT 62002 Internship II for Grades 5-12 Licensure
*EDT 63002 Internship II for Career Technical Areas
  – Grades 5-12 Licensure

**FPA – Graduate Fine Arts**

**FPA 56101 Functions of the Arts.** In this course, definitions of art are explored and the uses of art are considered. Students explore the contexts in which art is created and how art serves society. Students then learn to value each art independently. (1 semester hour)

**FPA 56201 Multicultural Arts.** This course focuses on cultural infusion through the arts and how art reflects the culture that produces it. (1 semester hour)

**FPA 56302 Experiential Travel.** In this course, students are expected to TRAVEL in a group to a major city with the express purpose to attend a full schedule of cultural events, tour museums and architectural landmarks, and meet with artists and scholars. Cultural centers might include New York, Washington D.C., Chicago, London, Rome, etc. Can be repeated. (2 semester hours)

**FPA 56402 Appalachian Culture.** This course explores the geographic and sociological definitions of the Appalachian region. Students will survey the unique qualities of Appalachia’s regional traditions, life styles, and value systems through research, literature, film, fine arts, and crafts, which offer a greater understanding of the commonalities found in children produced by this culture. (2 semester hours)

**FPA 56502 Video in the Classroom.** This course trains teachers to explore the many effective uses of the video camera in the classroom as a tool for enhancing the learning process. (2 semester hours)

**FPA 57001 Experiencing Music.** This course is designed to cause students to consider “interactive” learning and establish that people live within their senses and process sense gathered information. Students are encouraged to discover that ideas can be shaped from music. The course objective is to encourage the students to experience the “process” in meaningful ways. This course features music activities suited for use in the classroom. Can be repeated.
**FPA 57101 Experiencing Art.** This course is designed to give students the opportunity to create through visual and tactile stimuli. Emphasis will be placed on the “process” rather than the “product” with freedom for the student to risk failure. Failure is an important learning tool for visual creativity. This course will feature art activities suitable for public classroom instruction. Can be repeated. (1 semester hour)

**FPA 57201 Experiencing Theatre.** This course explores human interaction as an effective means of “interactive” learning. All people live within their senses and process sense gathered information. The students are encouraged to experience the “process” of improvisation, scripting, puppetry, and dance in meaningful ways. This course features a wide variety of activities suited for the classroom. Can be repeated. (1 semester hour)

**FPA 57301 Interdisciplinary Experience.** This course is designed to teach students to integrate arts disciplines within a thematic approach to learning art, music, theatre, dance, literature, and the more standard subject areas. Extremely effective learning situations can be structured through creative activities. This course often features team-taught activities suited for use in the classroom. Can be repeated. (1 semester hour)

**MIC 50202 Portfolio.** Students are introduced to the concept of evaluation and assessment with emphasis on portfolios. Assessment strategies will be presented. Students will personalize their learning experiences by documenting learning related to every class required for graduation. Students are expected to plot a trajectory for themselves to generate evidence of the process of learning. Students will apply knowledge gained through research to the design of an appropriate assessment program based on the mission, goals, and objectives of the respective school system. (2 semester hours)

**MIC 50902 Literacy in Technology.** This course emphasizes the uses of computers in education, data management, and content area application. (2 semester hours)

**MIC 50403 Learning Theory.** In this course, students explore and contrast various learning theories in light of current brain research, societal and environmental influences, and school practices. Prerequisites: EDT-50201 Portfolio and EDT-50902 Literacy in Technology (3 semester hours)

**MIC 50303 Mentoring Models.** This course focuses on several teaching models and how these models may be applied in the classroom. (3 semester hours)

**MIC 50501 Leaders and Change.** The focus of this course is on the empowerment of teachers as agents of change in curriculum and instruction. (1 semester hour)

**MIC 50802 Research and Evaluation Methods.** This course is designed to introduce students to the following types of educational research: Historical/descriptive, correlational, and experimental (with a survey of statistics used in that area). Emphasis will be on authentic assessment methods and using research results in the school. (2 semester hours)

**MIC 51101 Grant Writing.** This course focuses on the research and preparation of a proposal for funding. (1 semester hour)
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<td>09461</td>
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<td>0941</td>
<td>Communication Comprehensive-BS</td>
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<td>7943</td>
<td>Diagnostic Medical Sonography – BS</td>
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<td>2342</td>
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<td>0945</td>
<td>Individualized Degree Program (requires Academic Affairs approval)</td>
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<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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<td>7141</td>
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<td>3141</td>
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<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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<td>1770</td>
<td>Visual Arts – 3-D Art – BFA</td>
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<td>1780</td>
<td>Visual Arts – Graphic Design – BFA</td>
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<td>1790</td>
<td>Visual Arts – Pre-Art Therapy -BFA</td>
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<tr>
<td>23431</td>
<td>Wildlife Conservation - BS</td>
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<td>Education: Licenses-BS (Comprehensive Majors, Majors, and Concentrations)</td>
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<tr>
<td>40403</td>
<td>Early Childhood/Intervention Specialist **</td>
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<td>40404</td>
<td>Early Childhood/Intervention Spec. K-12**</td>
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</tbody>
</table>
Major Codes

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
40452 Multi-Age: Health
40453 Multi-Age: Music
40454 Multi-Age: Physical Education

Master’s of Education Degree Program:
4055 Intervention Spec-M/M- MEd.
40510 Intervention Speclst-EC-MEd.
40520 Educational Leadership – ME.d
40532 Integrated Arts-MEd.
4058 Coaching Leadership-MEd.

**Pending Ohio Department of Higher Education Approval**
<table>
<thead>
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<th>Scholarship</th>
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<tr>
<td>Alberta Koehler Scholarship Endowment</td>
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<td>Alice Frye &amp; Robert L Rannells Scholarship</td>
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<tr>
<td>Alpha Sigma Phi Scholarship</td>
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<tr>
<td>Alumni Association Scholarship</td>
</tr>
<tr>
<td>Aramark Facilities Services Scholarship Arthur E. Kisor Memorial Scholarship</td>
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<tr>
<td>Athena - Chi Omega Alpha Alumni Scholarship</td>
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<td>Atwood Scholarship Endowment</td>
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<tr>
<td>Axel &amp; Selma Dahlberg Memorial Scholarship</td>
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<td>Bank One-Gallipolis</td>
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<tr>
<td>Ben R. Evans Memorial Scholarship</td>
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<td>Bevo Francis Scholarship for Athletes</td>
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<td>Cariseo Scholarship</td>
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<tr>
<td>Carl Dahlberg Scholarship</td>
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<td>Carolyn Ward Quittner Scholarship</td>
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<td>Charles A. Frueauf Foundation Nursing Scholarship Charles A. Frueauf Foundation Scholarship</td>
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<td>Clark Baker Scholarship for Athletes</td>
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<td>Cyril B. Harpster Scholarship</td>
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<td>Dailey Scholarship Fund</td>
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<td>Daniel M. and Ruth M. Evans Scholarship Fund</td>
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<td>David K. and Ann W. McCarrell Scholarship Endowment</td>
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<td>David L. and Margaret Jenkins Evans Memorial Scholarship Fund</td>
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<td>Davis Family Trust</td>
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<tr>
<td>Dillon Memorial</td>
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<tr>
<td>Don Allen Memorial Scholarship</td>
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<tr>
<td>Don G. and Connie Pullin Scholarship for Meigs Center</td>
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<tr>
<td>Donald and Dorothy Rice Scholarship</td>
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<td>Dr. and Mrs. Ernest R. Miller Scholarship</td>
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<tr>
<td>Dr. David and Ann McCarrell History Prize</td>
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<td>Dr. Earl J. Levine Scholarship Fund</td>
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<td>Dr. Francis W. Shane Scholarship Fund</td>
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<td>Evan E. Davis/Oak Hill Bank Scholarship</td>
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<tr>
<td>Evan E. and Elizabeth Davis Soccer Scholarship</td>
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<tr>
<td>Edward Roark Memorial Scholarship</td>
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<td>Edward O. McCowen Scholarship</td>
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<td>Grace Davis Will Scholarship Endowment</td>
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<td>Gwenzilla Runyan Scholarship (GRR Memorial Scholarship)</td>
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<td>Harland and Freda Martin Scholarship for Nursing</td>
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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 Bradeberry 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 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
James E. Allen, Professor of Art (1986)
  M.A., M.F.A., Bowling Green State University, 1979
  B.S., The Ohio State University, 1973

Donald P. Althoff, Professor of
  Ph.D., Pennsylvania State University, 1983
  M.S., University of Nebraska, 1978
  B.S., The Ohio State University, 1976

Lacey Bailey, Assistant Professor of Nursing (2016)
  M.S., Walden University, 2015
  B.S.N., University of Rio Grande, 2007
  A.A.S., University of Rio Grande, 2005

Gail Ball, Associate Professor of Business (2007)
  Ph.D. The Pennsylvania State University, 1991
  M.B.A. University of Toledo, 1986
  B.S.B.A. The Ohio State University, 1982

Chris Barker, Professor of Radiologic
Technology (2004)
  M.S., Marshall University, 2004
  B.S., Shawnee State University, 2000

Scott Beekman, Associate Professor of History (2007)
  Ph.D., Ohio University, 2003
  M.A. Ohio University, 1997
  B.A. Shawnee State University, 1992

Sheli Bernstein-Goff, Associate Professor of Social
Work (2017)
  M.S.W., Florida State University, 1985
  B.A., Pennsylvania State University

Robyn Blache, Instructor HIM/HIT (2016)
  M.J., Loyola University, 2015
  B.A.S., Ohio State University, 2012

Tracey Boggs, Professor of Radiologic
Technology (2003)
  M.Ed., University of Rio Grande, 2007
  B.S., Shawnee State University, 1998
  Professional Certificate, University of Cincinnati, 1994
  A.A.S., Shawnee State University, 1992

Elizabeth Bonawitz, Professor of Mathematics (2007)
  Ph.D. Virginia Tech, 1994
  M.S. Virginia Tech, 1988
  B.A. Millersville, 1986

Elizabeth A. Brown, Professor of English (1990)
  Ph.D., University of Chicago, 1988
  M.A., University of Chicago, 1975
  B.A., Smith College, 1973

G. Mat Brown, Assistant Professor of Nursing
(2014)
  M.S.N., Marshall University, 2014
  M.S., Marshall University, 2011
  B.S.N., Marshall University, 2007

Lynley Carey, Assistant Professor of Education
(2014)
  M.S., Salem International University, 2009
  M.Ed., University of Rio Grande, 2006
  B.S., Ohio University, 1990

Mary K. Carlisle, Assistant Professor of Nursing
(2001)
  M.S., Otterbein College, 2001
  B.S. N., Graceland University, 1994
  Diploma School of Nursing, Ohio University, 1979

Kimball Clark, Assistant Professor of Physics
(2005)
  Ph.D., The University of Iowa, 1990
  M.S., The University of Iowa, 1984
  B.S., Brigham Young University, 1981

George A. Clonch, Assistant Professor of Industrial/
Manufacturing Technologies (1988)
  B.S., I.A., West Virginia Institute of Technology, 1985
  A.S., M.E., West Virginia Institute of Technology, 1975

Jackson Connor, Assistant Professor of English
(2015)
  Ph.D., Ohio University, 2011
  M.F.A., University of Utah, 2005
  B.A., Penn State, 2001

Traci Connor, Instructor of English (2017)
  Ph.D., University of Utah, 2007
  M.F.A., University of Utah, 2002
  B.A., Brigham Young University, 1995

Alan Cook, Assistant Professor of Business (2009)
  M.A., Marygrove College, 2001
  B.S., The Ohio State University, 1991

Vicki L. Crabtree, Assistant Professor of Office
Technology (1983)
  M.Ed., University of Cincinnati, 1979
  B.S., Morehead State University, 1975

Vicki Crooks, Assistant Professor of
Communication Studies (2016)
  Ph.D., Ohio University, 2014
  M.S., Portland State University, 2006
  B.S., Oregon Institute of Technology, 2001
Kay-Anne Darlington, Assistant Professor of Communication Studies (2016)
Ph.D., Ohio University, 2015
M.A., Ohio University, 2010
B.A., University of the West Indies, 2005

Benjy Davies, Professor of Art (2005)
M.F.A., Ohio University, 2000
B.F.A., The Ohio State University, 1995

Sunita Dayal, Assistant Professor of Nursing (2011)
M.S.N. University of Phoenix, 2010
B.S. University of Phoenix, 2007
A.S. University of Rio Grande, 2003
M.S. University of Colorado, 1997

Carrie Denney, Assistant Professor of DMS (2007)
M.Ed., University of Rio Grande, 2014
B.S., Adventist University of Health Sciences, 2012
A.A.S., Shawnee State University, 1990

Paul L. Dovyak, Professor of Social Work (1978)
M.S.W., West Virginia University, 1976
B.A., St. Vincent College, 1972

Diane Downard, Assistant Professor of Education (2002)
Post Graduate Studies, Ohio University
M.A., Trinity Evangelical Divinity School, 1981
B.S., Bowling Green University, 1974

Chad Duncan, Assistant Professor of Psychology (2013)
Ph.D., University of Nevada, Reno, 2013
M.A., University of Nevada, Reno, 2011
B.S., University of Wisconsin, Superior, 2007

Karen Hale Elliott, Assistant Professor of Spanish, English as a Second Language, and English (1991)
Diploma of Teaching Methodology, Universidad Autonoma de Guadalajara, 1980
M.A., Ohio University, 1978
A.B., Ohio University, 1976

Dana Evans, Associate Professor of Biology (2005)
Ph.D., Ohio College Podiatric Medicine, 1993
M.S., University of Central Florida
B.S., Waynesburg College, 1989

Richard Fisher, Assistant Professor of Education (2010)
D.V.M., The Ohio State University, 1976

Nanetta Fults, Assistant Professor of Education (2007)
Ed.D., West Virginia University, 1989
M.A., Ohio University, 1975
B.A., University of Rio Grande, 1971

Sangeeta Gulati, Professor of Education (2005)
Ph.D., University of South Dakota, 2005
M.A., Northern State University, 1997
B.S. & BED, University of Lucknow, 1993

Tim E. Hall, Assistant Professor of Chemistry (1985)
M.S., Marshall University, 1987
B.S., Rio Grande College, 1982

Jack W. Hart, Professor of English (1970)
Ph.D., Ohio University, 1970
M.A., Ohio University, 1966
B.A., Ohio University, 1964

Robert Hopkins, Associate Professor of Wildlife Conservation (2009)
Ph.D. Southern Illinois University, 2009
M.S. Morehead State University, 2005
B.S. Morehead State University, 2003

Monica Hummons, Assistant Professor of Education (2012)
D.Ed. Ashland University, 2012
M.S. University of Wisconsin-Oshkosh, 1991
B.S. East Stroudsburg University, 1987

Christopher Kenney, Associate Professor of Music (1998)
D.M.A., The Ohio State University, 1992
M.M., The Ohio State University, 1989
B.Mus., DePauw University, 1988

Govinda Koirala, Professor of Economics (1997)
Ph.D., New York University, 1996
M.A., Ohio University, 1989
M.B.A., University of Hawaii, 1981
M.S.C., Tribhewan University, Kathmandu, 1974

Gouthami Kothakapu, Assistant Professor of Computer Science (2016)
M.S., Marshall University, 2016
B.E., JNTU, 2014

Jennifer Lackey, Assistant Professor of Psychology (2016)
Ph.D., Bowling Green State University, 2016
M.A., Bowling Green State University, 2013
B.S., The Ohio State University, 2010

Laura Lee-Withrow, Assistant Professor of DMS (2005)
B.S., University of Rio Grande, 2007
A.A.S., Columbia State Community College, 1985

Mary Leffler, Instructor of Accounting (2016)
M.S., Kent State University, 2005
B.A., Ohio University, 1993
Full-Time Faculty

S. Kevin Lyles, Professor of Art (1990)
M.F.A., Bradley University, 1982
B.F.A., Abilene Christian University, 1979

Aileen Marcelo, Assistant Professor of Biology (2017)
Ph.D. Marshall University, 2012
M.S., Marshall University, 2003
B.S., West Virginia University, 2001

Donna Martin, Associate Professor of Biology (2003)
Ph.D., American University of the Caribbean School, 1991
B.S., University of Rio Grande, 1984

Raymond C. Matura, Professor of Sociology (1971)
Ph.D., University of Florida, 1982
M.A., Ohio University, 1973
B.A., Rio Grande College, 1971

Bethany McFann, Assistant Professor of Nursing (2012)
M.S., Walden University, 2009
B.S., The Ohio State University, 1995

M.S., California State University, 2005
B.S., Shawnee State University, 2002

Keith McKinniss, Instructor of Pharmacy Technician (2014)
M.S., Montana State University, 2016
B.S., Ohio Northern University, 2001

John Means, Associate Professor of Chemistry (2007)
Ph.D., Ohio University, 2007
M.S., The Ohio State University, 2001
B.A., Capital University, 1996

Katie Moleski, Assistant Professor of Sports and Exercise Studies (2012)
M.S., Ohio University, 2008
B.S., Ohio University, 2005

Christopher L. Pines, Professor of Philosophy (1989)
Ph.D., SUNY at Buffalo, 1989
B.A., University of Rochester, 1980

William Rogers, Associate Professor of Psychology (2013)
Ph.D., Texas A&M University, 2001
M.A., Southern Methodist University, 1995
B.S., University of Houston, 1992

Keith R. Saunders, Assistant Professor of Electronics/Industrial Technologies (1985)
M.S.E.E., Ohio University, 1989
B.S., Rio Grande College, 1983

Stephanie Saunders, Associate Professor of DMS (2007)
M.H.A. Walden University, 2011
B.S. University of Rio Grande, 2003
A.S. Central Ohio Technical College, 1998

Patricia Schaeffer, Instructor of Business (2017)
M.T., Capital Law School, 2014
B.S., B.A., Shawnee State University, 1995
A.S., Southeastern Business College, 1991

Stephanie Scott, Assistant Professor of Early Childhood Education (2017)
M.Ed., University of Rio Grande, 2010
B.S., University of Rio Grande, 2002

Kristie Seagraves, Assistant Professor of Nursing (2010)
M.S. Walden University, 2009
B.S. Marshall University, 2001

Linda A. Sigismondi, Professor of Biology (1991)
Ph.D., Oregon State University, 1986
M.S., Oregon State University, 1982
B.S., Clarion University of Pennsylvania, 1979

David Smalley, Assistant Professor of Health and Physical Education (1992)
M.A., Bowling Green State University, 1989
B.S., Rio Grande College, 1982

Timothy M. Snow, Associate Professor/Reference Librarian (1980)
A.M.L.S., University of Michigan, 1979
B.A., The Ohio State University, 1976

Aryna Sowers, Instructor of Mathematics (2017)
M.S., Ohio University, 2010
B.S., Odessa State, 1985
A.S., Hocking Technical College, 2006

Barbara Kim Stevens, Assistant Professor of Nursing (1993)
D.N.P., Case Western Reserve University, 2013
M.S.N., University of Akron, 1993
B.S.N., Ohio University, 1989

Gary Stewart, Assistant Professor of Music (2003)
M.A., Marshall University, 1990
B.A., Marshall University, 1987

Levi Stumbo, Instructor of Welding (2015)
B.S., University of Rio Grande, 2014
Douglas Sturgeon, Associate Professor of Education (2017)
Ed.D., Marshall University, 2002
M.A., Marshall University, 1991
B.A., Marshall University, 1987

Alice Taylor, Instructor of Mathematics (2015)
M.S., Shawnee State University, 2015
M.Ed., Grand Canyon University, 2014
B.S., Shawnee State University, 2001

Lisa Theiss, Assistant Professor of Nursing (2015)
M.S.N., Walden University, 2015
B.S.N., Ohio University, 2011
R.N., University of Rio Grande, 1998

Wesley Thoene, Associate Professor of Marketing (2005)
Ph.D., North Central University, 2011
M.B.A., Ohio University, 2004

Roger Watson, Assistant Professor of Business Management (2006)
M.A. Ohio University, 1978
B.A. Kentucky Christian College, 1976

Jacob White, Professor of Chemistry (2005)
Ph.D., Ohio University, 2005
B.S., Shawnee State University, 2001

Robert K. Willey, Assistant Professor of Health and Physical Education (1985)
M.Ed., Union College, 1975
B.S., Rio Grande College, 1973

Kent Williams, Professor of English (1984)
Ph.D., Ohio University, 2000
M.A., Marshall University, 1971
A.B., Marshall University, 1970

Sarin Williams, Associate Professor of Music (2011)
D.M.A. University of Missouri, 2011
M.Mus., University of Missouri, 2003
B. Mus., Bradley University, 2000

Samuel J. Wilson, Professor of History (1991)
Ph.D., Indiana University, 1991
M.A., University of Illinois, 1985
B.A., Indiana University, 1981

Charles Winters, Assistant Professor of Business (2007)
M.B.A., University of Rio Grande, 2008
B.S., Bowling Green State University, 1993

Jason Winters, Assistant Professor of Business (2012)
M.B.A. University of Rio Grande (2008)
B.S. The Ohio State University (1991)
A.S. Cincinnati College of Mortuary Science (1992)

Faculty Emeriti

Pushpa Agashe
Ph.D., The Ohio State University, 1972
M.S., Carnegie Mellon University, 1972
M.A., Pune, India, 1964
B.A., Pune, India, 1962

Marcella M. Barton
Ph.D., University of Chicago, 1981
M.A., University of Akron, 1973
B.A., University of California, 1970

Linda Bauer
M. Ed., Ohio University, 1963
B.S., Rio Grande College, 1960

Barbara Boley
Ph. D., Capella University, 2001
M.S.W., West Virginia University, 1987
M.S., Marshall University, 1976
B.A., Marshall University, 1973

Ellen Brasel
M.A., Ohio University, 1997
B.S., University of Rio Grande, 1993

Lila R. Buckley
M.S.N., Wright State University, 1987
B.S.N., Ohio University, 1977

F.W. Burdell
M.A., The Ohio State University, 1941
B.S., Ohio University, 1935
Diploma El. Ed., Rio Grande College, 1930

Ronald E. Craig
M.S., Ball State University, 1970
B.S., Ball State University, 1964

Juanita Evans Dailey
Ph.D., Ohio University, 1994
M.A.J., Marshall University, 1986
M.A., Ohio University, 1975
B.S., Rio Grande College, 1974
Alan Dean
Ed. D., University Southern Mississippi, 1980
M.S., University of South Alabama, 1975
B.S., University of Southern Mississippi, 1970

Lucille S. Deutsch
Ph.D., University of Pittsburgh, 1978
M.A., University of Pittsburgh, 1972
B.A., University of Pittsburgh, 1970

Leslie Dotson
M.A., Ohio State University, 1988
B.A., Ohio State University, 1983

James F. Doubleday
Ph.D., University of Illinois, 1967
M.S., University of Illinois, 1956
B.A., Northwestern University, 1958

Patsy M. Fields
M.S., West Virginia University, 1984
B.A., Glenville State, 1965

Joanne E. Ford
Ph.D., Ohio University, 1996
M.A., Ohio University, 1969
B.A., Ohio University, 1968

Ben Forshey
M.S., Bowling Green, 1962
B.S., Rio Grande College, 1959

Nancy Lease Goodin
M.S.N., West Virginia University, 1985
B.S.N., Ohio University, 1980

Carl Hoffman
M.S., University of Massachusetts, 1967
B.S., St. Lawrence University, 1966

Paul Holeski
Ph. D., Bowling Green State University, 1976
M.S., Akron University, 1969
A.B., Wilmington University, 1966

Margaret Leedy
M.S.N., Wright State University, 1984
B.S.N., Ohio University, 1980
A.D.N., Hocking Technical College, 1976

C. Robert Leith
M.A., Union College, 1966
B.S., University of Rio Grande, 1965

Charmaine Lepley
D.Ed., West Virginia University, 1993
M.A., West Virginia University, 1970
B.A., Glenville State College, 1961

H. Paul Lloyd
M.A., Marshall University, 1967
B.S., Rio Grande College, 1958

Ann W. McCarrell
Ph.D., Duke University, 1936
M.A., Columbia University, 1924
B.A., Barnard College, 1923
B.A., Anderson College, 1922

Gregory Miller
Ph.D., Ohio University, 1982
M.Ed., Xavier University, 1973
B.F.A., Ohio University, 1969

Joan B. Morrison
Ed.D., George Washington University, 1977
M.A., The Ohio State University, 1969
B.S., Miami University, 1948

Mervin Murdock
Ph.D., University of North Texas, 1991
M.S., Ithaca College, 1963
B.S., Hartwick College, 1959

Thomas Osborne
M.S., Fort Hayes State, 1968
B.S., Cedarville College, 1951

Arlie Peck
Ph.D., University of Missouri, 1985
M.A., University of Oklahoma, 1971
B.A., Bethany Nazarene College, 1968

Robert Pfeifer
M.A., Ohio University, 1970
B.S., Rio Grande College, 1965

Carolyn Quittner
M.S., University of Arkansas, 1979
B.S., University of Arkansas, 1973

Edith Ross
B.F.A., Ohio University, 1954

Janis Schmoll
Ed.D., Indiana University, 1979
M.Ed., Ohio University, 1973
B.S., Ohio University, 1971

Paul Sebastian
Ph.D., Kent State, 1994
M.B.A., University of Pittsburgh, 1969
B.S., Carnegie Mellon University, 1960
Paul Shoemaker
Ph.D., The Ohio State University, 1973
M.S., The Ohio State University, 1961
B.S., Ohio University, 1950

Edward R. Sofranko
Ed.D., Ball State University, 1978
M.A., Ball State University, 1971
B.A., University of Detroit, 1967

Gerald W. Sparkman
Ph.D. Texas Tech University, 1991
B.A., Texas Tech University, 1983

Larry G. Spees
Ed.D., West Virginia University, 1976
M.S., University of Wisconsin-Stout, 1969
B.A., Ohio Wesleyan University, 1960

William R. Stitt
Ph.D., Pennsylvania State University, 1969
B.S., Pennsylvania State University, 1963

Jian R. Sun
Ph.D., Ohio University, 1991
M.A., Ohio University, 1984
B.A. Xi’an Foreign Language Institute, 1979

Ruth Thomas
M.A., The Ohio State University, 1936
A.B., Ohio University, 1928

Barry Thompson
Ph. D., University of Arizona, 1973
M.A., University of Arizona, 1969
B.A., University of New Mexico, 1967

W. Luther Tracy
Th.M., Southern Baptist Theological Seminary, 1943
A.B., Denison University, 1938
Diploma, Rio Grande College, 1936

Ivan M. Tribe
Ph.D., University of Toledo, 1976
M.A., Ohio University, 1967
B.S. Ed., Ohio University, 1962

George Ulrich, C.P.A.
M.B.A., Florida Atlantic University, 1972
B.S., Florida Atlantic University, 1968

Harsh Vardhan
M.B.A., The Ohio State University, 1978
M.A., Northern Michigan University, 1972
B.S., Northern Michigan University, 1971

Charles Withee
M.A., Marshall University, 1962
B.A., Rio Grande College, 196
Administration

Stephanie Alexander, Director of Student Success  
Ph.D., Ohio University, 2013  
M.Ed., University of Rio Grande, 2003  
B.S., Ohio University, 1987  

James Bessette, V.P. for Enrollment Management and Marketing  
M.B.A., University of Montevallo, 2012  
B.S.B.A., University of Florida, 1985  

Ian Blache, Director of Workforce Development  
B.A., College of Commerce and Business Administration  

Kelly Bonice, MSW, LSW, Director of Accessibility, Mental Health Services, and Survivor Advocate  
B.S., University of Rio Grande, 2011  
A.A., University of Rio Grande, 2008  

Richard Borden, Campus Police Chief  
A.S., Ohio University, 2006  

Marlene Childers, R.N., Director, Health Services  
B.S.N., Ohio University, 2011  
A.S.N., Otterbein, 1987  

Scott Colley, Programmer/Analyst  
M.B.A., University of Rio Grande, 2014  
B.S., University of Rio Grande, 2002  

Abby Conder, Coordinator, International Programs & Services  
M.A., Concordia University, 2014  
B.A., Muskingum University, 2011  

Anthony Daniels, Director, Campus Sports and Recreation/Women’s Soccer Head Coach  
M.Ed., University of Rio Grande, 2006  
B.S., University of Rio Grande, 1995  

David Ding, Director, Bookstore  
A.B.M., Hocking Technical College, 1983  

Kelsey Doughman, Math Specialist/Tutor  
M.Ed., University of Rio Grande, 2017  
B.S., University of Rio Grande, 2009  

Heather Duda, Dean, College of Arts & Sciences  
Ph.D., Indiana University of Pennsylvania, 2006  
M.A., University of Maryland, 2001  
B.A., Lycoming College, 1998  

Delyssa Edwards, Director of Alumni Relations  
B.S., University of Rio Grande  

Amanda Ehman, Director, Admissions Operations, Rio Grande Community College  
M.B.A., University of Rio Grande, 2014  
B.S., University of Rio Grande, 2012  

A.A.B., Rio Grande Community College, 2011  

Kayla Fleming, Systems & Metadata Librarian  
M.L.I.S., Kent State University, 2016  
B.S., Ohio University, 2013  

Meghann Fraley, Director of Financial Aid  
B.S., University of Rio Grande, 2008  

Ken French, Men's Basketball Head Coach/Athletic Recruiting Coordinator  
M.Ed., American University, 1998  
B.A., WV State Institute, 1993  

Tara Gerlach, Athletic Trainer  
M.S., Marietta College, 1998  
B.S  

Susan P. Haft, Director, New Student Advising, Testing, and Career Services  
B.S., University of Rio Grande, 1983  

Kent Haley, C.P.A., Chief Financial Officer RGCC  
B.S., Regis University  

Chris Hammond, Softball Head Coach/Transportation Manager  
B.S., University of Akron, 1993  

Russell Henchey, C.P.A., Controller  
B.S., Concord University  

Allen Hudson, Assistant Network and Systems Administrator  
B.T.S., University of Rio Grande, 2016  
A.A.S., University of Rio Grande, 2006  

Jeanne Jindra, Director, Madog Welsh Center  
B.S., Ohio University, 1973  

Michelle Johnston, President  
Ph.D., Mississippi State University, 2006  
M.M., Louisiana State University, 1995  
B.M., University of Alabama, 1993  

Craig Klein, Dean of Community College Programming (2017)  
Ed.D., University of Florida, 1992  
M.A., Indiana University, 1985  
B.S., University of Kansas, 1978  

Jeff Lanham, Athletic Director  
M.S., Union College, 1987  
B.A., Union College, 1983  

David Lawrence, Associate Provost for Institutional Effectiveness  
D.M.A., Louisiana State University, 2002  
M.Mus., University of Washington, 1994  

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Richard Sax, Provost/Vice President for Academic Affairs  
Ph.D., University of Michigan, 1992  
M.A., University of Michigan, 1979  
B.A., Haverford College, 1978

Tamara L. Sheets, Registrar and Campus Coordinator for Records Retention  
M.B.A., University of Rio Grande, 2014  
B.S., University of Rio Grande, 2012  
B.T.S., University of Rio Grande, 2012  
A.A.B., University of Rio Grande, 1995

Bonnie Allen-Smith, Director, Holzer School of Nursing  
Ph.D., Ohio University, 2005  
M.S., Wright State University, 1992

Michael Snider, Network and Systems Administrator  
M.S., The Ohio State University, 2014  
B.S., The Ohio State University, 2009

Tom Sutton, Director, Meigs Center  
M.Ed., University of Rio Grande, 2006  
B.S., Salem International University, 2002

Michael Thompson, Director, Instructional Design and Media Services  
B.S., University of Rio Grande, 2007

Jean Ann Vance, Director, Publications  
B.S., Rio Grande College, 1986

Annette Ward, Executive to the President/Board Professional  
M.Ed., University of Rio Grande, 2007  
B.S., University of Rio Grande, 1998

Brad Warnimont, Director, Lyne Center/ Baseball Head Coach  
M.A., Ohio State University, 1989  
B.S., Ohio Western University, 1986

Dena Warren, Dean of Students/Director of Housing, AToD Educator/Deputy Title IX Coordinator  
M.Ed., University of Rio Grande, 2015  
B.S., University of Rio Grande, 1995

Kara Willis, Executive Director of Institutional Advancement  
B.A., Shawnee State University, 2002

Amy R. Wilson, Director, Davis Library  
M.L.I.S., University of Wisconsin-Milwaukee, 2004  
M. S., Marshall University, 1994  
B.A., Indiana University, 1989

Nian-Hong Yang, Director, Accounting  
M.B.A., University of Rio Grande, 2009  
B.S., University of Rio Grande, 1996  
A.S., TV University of China, 1986
Michelle Young, R.N., Nursing Skills Lab Coordinator
M.S., Walden University, 2007
B.S.N., Malone College, 1996

Beth Zinn, Director, McArthur and Jackson Center
B.S., University of Rio Grande, 2011
A.A.B., University of Rio Grande, 2005

Administrative Emeriti

Phyllis Mason
M.B.A., Wright State University, 1999
B.S., University of Rio Grande, 1996
A.A., Rio Grande Community College

Mark Abell
M.Ed., Ohio University, 1978
B.S., Ohio State University, 1970

Paul Harrison
B.A., University of Louisville, 1974
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Charles A. Weed ............ 1981
Francis W. Shane ........... 1982
Samuel S. Davis ............ 1983
John E. Halliday ............ 1983
Harland Martin ............. 1983
Paul C. Hayes ............. 1984
John L. Beckley ............ 1986
Max W. Morrow ............ 1987
Robert L. Evans ............ 1990
Bernard V. Fultz ........... 1992
Jeanette Albeiz Davis .... 1992
James A. Rhodes ........... 1993
Vernal G. Riffe, Jr ........ 1993
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Evan E. Davis ............ 2004
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Mary Lynne Jones .......... 2012 ............ Thurman, OH
Lawrence (Larry) Kidd .... 2011 ............ Jackson, OH
Bobbi Montgomery .......... 2016 ............ Jackson, OH
Paul M. Reed ............ 2004 ............ Pomeroy, OH
Shawn E. Saunders .......... 2008 ............ Gallipolis, OH
Jody W. Walker ............. 2006 ............ McArthur, OH
Deborah Weber ............. 2012 ............ Reedsville, OH

Trustee Emeritus
Polly Wetherholt* .......... 1997 ............ Gallipolis, OH

* Deceased